



## City of Peoria, Arizona Notice of Request for Proposal for Professional Services



ORIGINAL

Request for Proposal No: **P08-0055** Proposal Due Date: **May 29, 2008**  
 Services: **Material & Geotechnical Testing Services** Proposal Time: **5:00 P.M. Arizona Time**  
 Purchasing Agent: **Christine Finney**  
 Location: **City of Peoria, Materials Management** Phone: **(623) 773-7115**  
 Mailing Address: **8314 West Cinnabar Street, Peoria, AZ 85345**

In accordance with City of Peoria Procurement Code, competitive sealed proposals for the services specified will be received by the City of Peoria Materials Management at the specified location until the date and time cited above. Proposals shall be in the actual possession of the City of Peoria Materials Management on or prior to the exact date and time indicated above. Late proposals will not be considered, except as provided in the City of Peoria Procurement Code. **Proposals shall be submitted in a sealed envelope with the Request for Proposal number and the offeror's name and address clearly indicated on the front of the envelope.** All proposals shall be completed in ink or typewritten. Offerors are strongly encouraged to carefully read the **entire** Request for Proposal Package.

### OFFER

To the City of Peoria: The undersigned, on behalf of the entity, firm, company, partnership, or other legal entity listed below, offers on its behalf to the City a proposal that contains all terms, conditions, specifications and amendments in the Notice of Request for Proposal issued by the City. Any exception to the terms contained in the Notice of Request for Proposal must be specifically indicated in writing and are subject to the approval of the City prior to acceptance. The signature below certifies your understanding and compliance with Paragraph 1 of the City of Peoria Standard Terms and Conditions (form COP 202) contained in the Request for Proposal package issued by the City.

Arizona Transaction (Sales) Privilege Tax License Number: \_\_\_\_\_

For clarification of this offer contact:

Name: DEAN E. ALFORD

Telephone: 480-296-0266 Fax: 480-216-0272

CONVERSE CONSULTANTS  
Company Name

DEAN E. ALFORD  
Authorized Signature for Offer

9831 S. 51<sup>ST</sup> ST., C-112  
Address

DEAN E. ALFORD  
Printed Name

PHOENIX AZ 85044  
City State Zip Code

PRINCIPAL/MANAGING OFFICER  
Title

### ACCEPTANCE OF OFFER AND CONTRACT AWARD (For City of Peoria Use Only)

Your offer is accepted by the City, subject to approval of each written exception that your proposal contained. The contract consists of the following documents: 1.) Request for Proposal issued by the City; 2.) Your offer in Response to the City's Request for Proposal; and 3.) This written acceptance and contract award. As the awarded professional service provider, you are now legally bound to provide the services listed by the attached award notice, based on the solicitation of proposals, including all terms, conditions, specifications, amendments and your offer as now accepted by the City. The professional service provider shall not commence any billable work or provide any services under this contract until the professional service provider receives an executed Purchase Order or a Notice to Proceed.

Attested by: Mary Jo Kief  
Mary Jo Kief, City Clerk

City of Peoria, Arizona. Effective Date: 8/2/08

Approved as to form: Stephen M. Kemp  
Stephen M. Kemp, City Attorney

CC: \_\_\_\_\_

Contract Number: CON 43608

Contract Awarded Date: 8/1/08  
Herman F. Koebergen  
Herman F. Koebergen, Materials Manager



Official File: \_\_\_\_\_

**A CON 43608**

# ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
08/14/2008

PRODUCER (818)449-9300 FAX (818)449-9321  
**Poms & Associates**  
 License #0814733  
 5700 Canoga Ave. #400  
 Woodland Hills, CA 91367

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE		NAIC #
INSURER A:	Arch Specialty Ins.	21199
INSURER B:	Travelers Property and Casualty	25674
INSURER C:		
INSURER D:		
INSURER E:		

INSURED **The Converse Professional Group**  
 dba: Converse Consultants  
 222 East Huntington Drive, Suite 211  
 Monrovia, CA 91016-3500

## COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
A	X	<b>GENERAL LIABILITY</b> <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC	EMP0011956-02	12/31/2007	06/30/2009	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 1,000,000
B		<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS	P-810-153D8596-TIL-08	08/17/2008	08/17/2009	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
		<b>GARAGE LIABILITY</b> <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN AUTO ONLY: EA ACC \$ AGG \$
		<b>EXCESS/UMBRELLA LIABILITY</b> <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE DEDUCTIBLE \$ RETENTION \$				EACH OCCURRENCE \$ AGGREGATE \$ \$ \$ \$
		<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below				WC STATUTORY LIMITS OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A		<b>OTHER Professional Liability</b>	EMP0011956-02	12/31/2007	06/30/2009	Per Claim: \$3,000,000 Agg: \$3,000,000/Ded: \$250,000 Retro Date: 8/14/1984

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS  
 Project #08-53111-01/Solicitation #P08-0055

\*\*See Attached for Additional Insured.

\*10 Days notice of cancellation for non-payment of premium.

## CERTIFICATE HOLDER

City of Peoria  
 c/o Materials Mgmt. Procurement  
 Attn: Christine Finney  
 8314 West Cinnabar Street  
 Peoria, AZ 85345-6560

## CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL \*30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE





## Certificate of Insurance

**Certificate Mailed To:**

CITY OF PEORIA MATERIAL MANAGEMENT  
ATTN: CHRISTINE FINNEY  
8314 WEST CINNABAR STREET  
PEORIA AZ 85345

**Name of Insured:**

CONVERSE PROFESSIONAL GROUP  
INC, THE  
222 E Huntington Dr Ste 211B  
Monrovia CA 91016

Date Issued: 08/14/2008  
Certificate Number: 47  
Policy Number: 402253  
Origin Date: 10/29/2005  
Expiration Date: 12/01/2008  
Liability Limits: 1000/1000/1000  
(000 Omitted)

**Proof of Coverage**

Engineering and Architectural Work @ Various AZ Locations

**Job Number:** 0853 11101

**Location:**

Should the above policy be canceled by the SCF ARIZONA before the expiration date thereof, the SCF ARIZONA will endeavor to mail 30 days written notice to the above named Certificate Holder, but failure to mail such notice shall impose no obligation or liability of any kind upon the SCF ARIZONA.

This Certificate is issued as a matter of information only and confers no rights upon the certificate holder. This certificate does not amend, extend or alter the coverage afforded by the policy listed hereon. This is to certify a workers' compensation policy has been issued to the insured listed hereon and is in force for the period referenced.

**Certificate Issued To:**

City of Peoria Material Management  
Attn: Christine Finney  
8314 West Cinnabar Street  
Peoria AZ 85345

A handwritten signature in black ink, appearing to read 'Robert Schaefer', is written over a horizontal line.

Authorized Representative



# REQUEST FOR PROPOSAL

## INSTRUCTIONS TO OFFEROR

### Materials Management Procurement

8314 West Cinnabar Street  
Peoria, Arizona 85345-6560

Phone: (623) 773-7115

Fax: (623) 773-7118

#### 1. PREPARATION OF PROPOSAL:

- a. All proposals shall be on the forms (if any) provided in this *Request For Proposal* package. It is permissible to copy these forms if required. Telegraphic (facsimile) or mailgram proposals will not be considered.
- b. The Offer and Contract Award document (COP Form 203) shall be submitted with an original ink signature by a person authorized to sign the offer.
- c. Erasures, interlineations, or other modifications in the proposal shall be initialed in original ink by the authorized person signing the Offer sheet.
- d. If price is a consideration and in case of error in the extension of prices in the proposal, the unit price shall govern. No proposal shall be altered, amended, or withdrawn after the specified proposal due date and time.
- e. Periods of time, stated as a number of days, shall be calendar days.
- f. It is the responsibility of all Offerors to examine the entire *Request For Proposal* package and seek clarification of any item or requirement that may not be clear and to check all responses for accuracy before submitting a bid. Negligence in preparing a Proposal confers no right of withdrawal after proposal due date and time.

2. **INQUIRIES:** Any question related to the *Request For Proposal* shall be directed to the purchasing agent whose name appears on the front. The Offeror shall not contact or ask questions of the department for which the requirement is being procured. Questions should be submitted in writing when time permits. The purchasing agent may require any and all questions be submitted in writing at the Buyer's sole discretion. Any correspondence related to a *Request For Proposal* should refer to the appropriate *Request For Proposal* number, page, and paragraph number. However, the Offeror shall not place the *Request For Proposal* number on the outside of any envelope containing questions since such an envelope may be identified as a sealed proposal and, if so, will not be opened until after the official *Request For Proposal* due date and time.

3. **PROSPECTIVE OFFERORS CONFERENCE:** A prospective offerors conference may be held. If scheduled, the date and time of this conference will be indicated within this document. The purpose of this conference will be to clarify the contents of this *Request For Proposal* in order to prevent any misunderstanding of the City's position. Any doubt as to the requirements of this *Request For Proposal* or any apparent omission or discrepancy should be presented to the City at this conference. The City will then determine if any action is necessary and may issue a written amendment to the *Request for Proposal*. Oral statements or instructions will not constitute an amendment to this *Request for Proposal*.

4. **LATE PROPOSALS:** Late Proposals will not be considered, except as provided by the **City of Peoria Procurement Code**. A professional service provider submitting a late proposal shall be so notified.

5. **WITHDRAWAL OF PROPOSAL:** At any time prior to the specified proposal due date and time, a professional service provider (or designated representative) may withdraw the proposal. Telegraphic (facsimile) or mailgram proposal withdrawals will not be considered.

6. **AMENDMENT OF PROPOSAL:** Receipt of a Solicitation Amendment (COP Form 207) shall be acknowledged by signing and returning the document prior to the specified proposal due date and time.

7. **PAYMENT:** The City will make every effort to process payment for the purchase of services within thirty (30) calendar days after receipt of services and a correct notice of amount due, unless a good faith dispute exists as to any obligation to pay all or a portion of the account. Any proposal that requires payment in less than thirty (30) calendar days shall not be considered.

8. **DISCOUNTS:** Payment discount periods will be computed from the date of receipt of service or correct invoice, whichever is later, to the date Buyer's payment is mailed. Unless freight and other charges are itemized, any discount provided will be taken on full amount of invoice. Payment discounts of thirty (30) calendar days or more will be deducted from the proposal price in determining the low bid. However, the Buyer shall be entitled to take advantage of any payment discount offered by the Offeror provided payment is made within the discount period.

9. **TAXES:** The City of Peoria is exempt from Federal Excise Tax, including the Federal Transportation Tax. Sales tax, if any, shall be indicated as a separate item.

10. **VENDOR REGISTRATION:** After the award of a contract, the successful Offeror shall have a completed Vendor Registration Form (COP Form 200) on file with the City of Peoria Materials Management Division.

#### 11. AWARD OF CONTRACT:

a. Notwithstanding any other provision of this *Request For Proposal*, The City expressly reserves the right to:

- (1) Waive any immaterial defect or informality; or
- (2) Reject any or all proposals, or portions thereof, or
- (3) Reissue a *Request For Proposal*.

b. A response to a *Request For Proposal* is an offer to contract with the City based upon the terms, conditions and specifications contained in the City's *Request For Proposal* and the written amendments thereto, if any. Proposals do not become contracts unless and until they are accepted by the City Council. A contract is formed when written notice of award(s) is provided to the successful Offeror(s). The contract has its inception in the award document, eliminating a formal signing of a separate contract. For that reason, all of the terms and conditions of the procurement contract are contained in the *Request For Proposal*; unless modified by a Solicitation Amendment (COP Form 207) or a Contract Amendment (COP Form 217).



## STANDARD TERMS AND CONDITIONS

**Materials Management  
Procurement**  
8314 West Cinnabar Street  
Peoria, Arizona 85345-6560  
Phone: (623) 773-7115  
Fax: (623) 773-7118

### THE FOLLOWING TERMS AND CONDITIONS ARE AN EXPLICIT PART OF THE SOLICITATION AND ANY RESULTANT CONTRACT.

1. **CERTIFICATION:** By signature in the Offer section of the Offer and Contract Award page (COP Form 203), the Professional Services Provider, (Consultant), certifies:
  - a. The submission of the offer did not involve collusion or other anti-competitive practices.
  - b. The Consultant shall not discriminate against any employee or applicant for employment in violation of Federal Executive Order 11456.
  - c. The Consultant has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip favor, or service to a public servant in connection with the submitted offer. Failure to sign the offer, or signing it with a false statement, shall void the submitted offer or any resulting contracts, and the Consultant may be debarred.
2. **GRATUITIES:** The City may, by written notice to the Consultant, cancel this contract if it is found by the City that gratuities, in the form of entertainment, gifts or otherwise, were offered or given by the Consultant or any agent or representative of the Consultant, to any officer or employee of the City with a view toward securing an order, securing favorable treatment with respect to the awarding, amending, or the making of any determinations with respect to the performing of such order. In the event this contract is cancelled by the City pursuant to this provision, the City shall be entitled, in addition to any other rights and remedies, to recover or withhold from the Consultant the amount of the gratuity. Paying the expense of normal business meals which are generally made available to all eligible city government customers shall not be prohibited by this paragraph.
3. **APPLICABLE LAW:** In the performance of this agreement, Consultant shall abide by and conform to any and all laws of the United States, State of Arizona and City of Peoria including but not limited to federal and state executive orders providing for equal employment and procurement opportunities, the Federal Occupational Safety and Health Act and any other federal or state laws applicable to this agreement.

Contractor warrants, for the term of this agreement and for six months thereafter, that it has fully complied with the requirements of the Immigration Reform and Control Act of 1986 and all related or similar legal authorities.

This contract shall be governed by the laws of the State of Arizona and suit pertaining to this contract may be brought only in courts in the State of Arizona.

This contract is subject to the provisions of ARS §38-511; the City may cancel this contract without penalty or further obligations by the City or any of its departments or agencies if any person significantly involved in initiating, negotiating, securing, drafting or creating the contract on behalf of the City or any of its departments or agencies, is at any time while the contract or any extension of the contract is in effect, an employee of any other party to the contract in any capacity or a consultant to any other party of the contract with respect to the subject matter of the contract.
4. **LEGAL REMEDIES:** All claims and controversies shall be subject to resolution according to the terms of the City of Peoria Procurement Code.
5. **CONTRACT:** The contract between the City and the Consultant shall consist of (1) the Solicitation, including instructions, all terms and conditions, specifications, scopes of work, attachments, and any amendments thereto, and (2) the offer submitted by the Consultant in response to the solicitation. In the event of a conflict in language between the Solicitation and the Offer, the provisions and requirements in the Solicitation shall govern. However, the City reserves the right to clarify, in writing, any contractual terms with the concurrence of the Consultant, and such written contract shall govern in case of conflict with the applicable requirements stated in the Solicitation or the Consultant's offer. The Solicitation shall govern in all other matters not affected by the written contract.
6. **CONTRACT AMENDMENTS:** This contract may be modified only by a written Contract Amendment (COP Form 217) signed by persons duly authorized to enter into contracts on behalf of the City and the Consultant.
7. **CONTRACT APPLICABILITY:** The Offeror shall substantially conform to the terms, conditions, specifications and other requirements found within the text of this specific Solicitation. All previous agreements, contracts, or other documents, which have been executed between the Offeror and the City are not applicable to this Solicitation or any resultant contract.



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8. **PROVISIONS REQUIRED BY LAW:** Each and every provision of law and any clause required by law to be in the contract will be read and enforced as though it were included herein, and if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party, the contract will forthwith be physically amended to make such insertion or correction.
9. **SEVERABILITY:** The provisions of this contract are severable to the extent that any provision or application held to be invalid shall not affect any other provision or application of the contract which may remain in effect without the invalid provision or application.
10. **RELATIONSHIP TO PARTIES:** It is clearly understood that each party will act in its individual capacity and not as an agent, employee, partner, joint venturer, or associate of the other. An employee or agent of one party shall not be deemed or construed to be the employee or agent of the other for any purpose whatsoever. The Consultant is advised that taxes or Social Security payments will not be withheld from any City payments issued hereunder and that the Consultant should make arrangements to directly pay such expenses, if any.
11. **INTERPRETATION-PAROL EVIDENCE:** This contract represents the entire agreement of the Parties with respect to its subject matter, and all previous agreements, whether oral or written, entered into prior to this contract are hereby revoked and superseded by this contract. No representations, warranties, inducements or oral agreements have been made by any of the Parties except as expressly set forth herein, or in any other contemporaneous written agreement executed for the purposes of carrying out the provisions of this contract. This contract may not be changed, modified or rescinded except as provided for herein, absent a written agreement signed by both Parties. Any attempt at oral modification of this contract shall be void and of no effect.
12. **ASSIGNMENT-DELEGATION:** No right or interest in this contract shall be assigned by Consultant without prior written permission of the City and no delegation of any duty of Consultant shall be made without prior written permission of the City.
13. **SUBCONTRACTS:** No subcontract shall be entered into by the Consultant with any other party to furnish any of the material, service or construction specified herein without the advance written approval of the City. The prime Consultant shall itemize all sub-contractors which shall be utilized on the project. Any substitution of sub-contractors by the prime Consultant shall be approved by the City and any cost savings will be reduced from the prime Consultant's bid amount. All subcontracts shall comply with Federal and State laws and regulations which are applicable to the services covered by the subcontract and shall include all the terms and conditions set forth herein which shall apply with equal force to the subcontract and if the Subcontractor were the Consultant referred to herein. The Consultant is responsible for contract performance whether or not Subcontractors are used.
14. **RIGHTS AND REMEDIES:** No provision in this document or in the Consultant's offer shall be construed, expressly or by implication, as waiver by the City of any existing or future right and/or remedy available by law in the event of any claim of default or breach of contract. The failure of the City to insist upon the strict performance of any term or condition of the contract or to exercise or delay the exercise of any right or remedy provided in the contract, or by law, or the City's acceptance of and payment for materials or services, shall not release the Consultant from any responsibilities or obligations imposed by this contract or by law, and shall not be deemed a waiver of any right of the City to insist upon the strict performance of the Contract.
15. **INDEMNIFICATION:** To the fullest extent permitted by law, the Consultant shall defend, indemnify and hold harmless the City, its agents, representatives, officers, directors, officials and employees for costs or damages for which the Consultant is legally responsible or for which the City is vicariously liable on account of the Consultant's willful or negligent acts, error or omissions.  
  
The amount and type of insurance coverage requirements set forth herein will in no way be construed as limiting the scope of the indemnity in this paragraph.
16. **OVERCHARGES BY ANTITRUST VIOLATIONS:** The City maintains that, in practice, overcharges resulting from antitrust violations are borne by the purchaser. Therefore, to the extent permitted by law, the Consultant hereby assigns to the City any and all claims for such overcharges as to the goods and services used to fulfill the Contract.
17. **FORCE MAJEURE:** Except for payment for sums due, neither party shall be liable to the other nor deemed in default under this Contract if and to the extent that such party's performance of this Contract is prevented by reason of force Majeure. The term "force majeure" means an occurrence that is beyond the control of the party affected and occurs without its fault or negligence. Without limiting the foregoing, force majeure includes acts of God: acts of the public enemy; war; acts of terror, hate crimes affecting public order; riots; strikes; mobilization; labor disputes; civil disorders; fire; floods; lockouts, injunctions-intervention-acts, or failures or refusals to act by government authority; events or obstacles resulting from a governmental authority's response to the foregoing; and other similar occurrences beyond the control of the party declaring force majeure which such party is unable to prevent by exercising reasonable diligence. The force majeure shall be deemed to



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commence when the party declaring force majeure notifies the other party of the existence of the force majeure and shall be deemed to continue as long as the results or effects of the force majeure prevent the party from resuming performance in accordance with this Contract.

Force majeure shall not include the following occurrences:

- a. Last minute failure of office equipment is not force majeure.
- b. Late performance by a subcontractor unless the delay arises out of a force majeure occurrence in accordance with this Force Majeure term and Condition.

Any delay or failure in performance by either party hereto shall not constitute default hereunder or give rise to any claim for damages or loss of anticipated profits if, and to the extent that such delay or failure is caused by force majeure. If either party is delayed at any time in the progress of the work by force majeure, then the delayed party shall notify the other party in writing of such delay within forty-eight (48) hours commencement thereof and shall specify the causes of such delay in such notice. Such notice shall be hand delivered or mailed *Certified-Return Receipt* and shall make a specific reference to this article, thereby invoking its provisions. The delayed party shall cause such delay to cease as soon as practicable and shall notify the other party in writing. The time of completion shall be extended by contract modification for a period of time equal to the time that the results or effects of such delay prevent the delayed party from performing in accordance with this contract.

18. **RIGHT TO ASSURANCE:** Whenever one party to this contract in good faith has reason to question the other party's intent to perform he may demand that the other party give a written assurance of this intent to perform. In the event that a demand is made and no written assurance is given within five (5) days, the demanding party may treat this failure as an anticipatory repudiation of the Contract.
19. **RIGHT TO AUDIT RECORDS:** The City may, at reasonable times and places, audit the books and records of any Consultant as related to any contract held with the City.
20. **RIGHT TO INSPECT:** The City may, at reasonable times, inspect the part of the place of business of a Consultant or Subcontractor which is related to the performance of any contract as awarded or to be awarded.
21. **WARRANTIES:** Consultant warrants that all services delivered under this contract shall conform to the specifications of this contract. Consultant warrants that all services shall be performed in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances. Additional warranty requirements may be set forth in the solicitation.
22. **INSPECTION:** All services are subject to final inspection and acceptance by the City. Services failing to conform to the specifications of this Contract will be held at Consultant's risk and may be returned to the Consultant. If so returned, all costs are the responsibility of the Consultant. The City may elect to do any or all:
  - a. Waive the non-conformance.
  - b. Stop the work immediately.
  - c. Bring material into compliance.This shall be accomplished by a written determination for the City.
23. **TITLE AND RISK OF LOSS:** The title and risk of loss of service shall not pass to the City until the City actually receives the service at the point of delivery, unless otherwise provided within this Contract.
24. **NO REPLACEMENT OF DEFECTIVE TENDER:** Every tender of materials shall fully comply with all provisions of the Contract. If a tender is made which does not fully conform, this shall constitute a breach of the Contract as a whole.
25. **DEFAULT IN ONE INSTALLMENT TO CONSTITUTE TOTAL BREACH:** Consultant shall deliver conforming materials in each installment of lot of this Contract and may not substitute nonconforming materials. Delivery of nonconforming materials or a default of any nature, at the option of the City, shall constitute a breach of the Contract as a whole.



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26. **LICENSES:** Consultant shall maintain in current status all Federal, State and Local licenses and permits required for the operation of the business conducted by the Consultant as applicable to this Contract.
27. **PATENTS AND COPYRIGHTS:** All services, information, computer program elements, reports and other deliverables, which may be patented or copyrighted and created under this contract are the property of the City and shall not be used or released by the Consultant or any other person except with the prior written permission of the City.
28. **PREPARATION OF SPECIFICATIONS BY PERSONS OTHER THAN CITY PERSONNEL:** All specifications shall seek to promote overall economy for the purposes intended and encourage competition and not be unduly restrictive in satisfying the City's needs. No person preparing specifications shall receive any direct or indirect benefit from the utilization of specifications, other than fees paid for the preparation of specifications.
29. **COST OF PROPOSAL PREPARATION:** The City shall not reimburse the cost of developing presenting or providing any response to this solicitation. Offers submitted for consideration should be prepared simply and economically, providing adequate information in a straightforward and concise manner.
30. **PUBLIC RECORD:** All offers submitted in response to this solicitation shall become the property of the City and shall become a matter of public record available for review, subsequent to the award notification, in accordance with the City's Procurement Code.
31. **ADVERTISING:** Consultant shall not advertise or publish information concerning this Contract, without prior written consent of the City.
32. **DELIVERY ORDERS:** The City shall issue a Purchase Order for the services covered by this contract. All such documents shall reference the contract number as indicated on the Offer and Contract Award (COP Form 203).
33. **FUNDING:** Any contract entered into by the City of Peoria is subject to funding availability. Fiscal years for the City of Peoria are July 1 to June 30. The City Council approves all budget requests. If a specific funding request is not approved, the contract shall be terminated.
34. **DISCLAIMER:** The City of Peoria, Arizona provides current and complete solicitation information for registered Plan Holders only. Updates, amendments and related information regarding the solicitation contained herein will be delivered only to registered Plan Holders. The City assumes no liability or duty to so update or send any update to persons who are not Plan Holders. Any person who acquires these documents from any source other than the City website or directly from the Materials Management Division, has no assurance that the solicitation is valid. No person may amend this document, nor may any person publish it without this disclaimer.
35. **PAYMENT:** A separate invoice shall be issued for each service performed, and no payment will be issued prior to receipt of services and correct invoice.



## SPECIAL TERMS AND CONDITIONS

Solicitation Number: P08-0055

Materials Management  
Procurement  
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1. **Purpose:** Pursuant to provisions of the City of Peoria Procurement Code, the City of Peoria, Materials Management Division intends to establish a contract for **Material and Geotechnical Testing Services**.
2. **Authority:** This Solicitation as well as any resultant contract is issued under the authority of the City. No alteration of any resultant contract may be made without the express written approval of the City Materials Manager in the form of an official contract amendment. Any attempt to alter any contract without such approval is a violation of the contract and the City Procurement Code. Any such action is subject to the legal and contractual remedies available to the City inclusive of, but not limited to, contract cancellation, suspension and/or debarment of the Consultant.
3. **Offer Acceptance Period:** In order to allow for an adequate evaluation, the City requires an offer in response to this Solicitation to be valid and irrevocable for ninety (90) days after the opening time and date.
4. **Eligible Agencies:** Any contract resulting from this Solicitation shall be for the use of all City of Peoria departments, agencies and boards.
5. **Cooperative Purchasing:** Any contract resulting from this solicitation shall be for the use of the City of Peoria: In addition, specific eligible political subdivisions and nonprofit educational or public health institutions may also participate at their discretion. In order to participate in any resultant contract, a political subdivision or nonprofit educational or public health institution must have been invited to participate in this specific solicitation and the contractor must be in agreement with the cooperative transaction. In addition to cooperative purchasing, any eligible agency may elect to participate (piggyback) on any resultant contract; the specific eligible political subdivision, nonprofit educational or public health institution and the contractor must be in agreement.  
  
Any orders placed to the successful contractor will be placed by the specific agencies participating in this purchase. Payment for purchases made under this agreement will be the sole responsibility of each participating agency. The City shall not be responsible for any disputes arising out of transactions made by others.
6. **Contract Type:** Fixed Price
7. **Term of Contract:** The term of any resultant contract shall commence on the date of award and shall continue for a period of one (1) year thereafter, unless terminated, cancelled or extended as otherwise provided herein.
8. **Contract Extension:** By mutual written contract amendment, any resultant contract may be extended for supplemental periods of up to a maximum of forty-eight (48) months.
9. **Affirmative Action:** It is the policy of the City of Peoria that suppliers of goods or services to the City adhere to a policy of equal employment opportunity and demonstrate an affirmative effort to recruit, hire, and promote regardless of race, color, religion, gender, national origin, age or disability.
10. **Submittal Requirements:** Proposal Submittal & Content Requirements are outlined in detail on Pages 23 – 24.
11. **Proposal Opening:** Proposals shall be submitted at the time and place designated in the request for proposals. All information contained in the proposals shall be deemed as exempt from public disclosure based on the City's need to avoid disclosure of contents prejudicial to competing offerors during the process of negotiation. The proposals shall not be open for public inspection until after contract award. **PRICES SHALL NOT BE READ.** After contract award, the successful proposal and the evaluation documentation shall be open for public inspection.
12. **Discussions:** In accordance with the City of Peoria Procurement Code, after the initial receipt of proposals, discussions may be conducted with offerors who submit proposals determined to be reasonably susceptible of being selected for award.



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13. **Evaluation:** In accordance with the City of Peoria Procurement Code, awards shall be made to the responsible offeror whose proposal is determined in writing to be the most advantageous to the City, based upon the evaluation criteria listed below. The evaluation factors are listed in their relative order of importance.
- Project Understanding & Approach;
  - Firm's & Staff's Experience;
  - Cost/Fee Proposal;
  - References from Similar Projects;
  - Conformance to the Request for Proposals.
- The City reserves the right to consider historic information and facts, whether gained from the Offeror's proposal, questions and answer conferences, references, or other source and the views of the evaluator(s) with prior Contract or service delivery experience with any of the Offerors, while conducting the proposal evaluations.
14. **Interview Guidelines:** During any requested interview, which would be scheduled in the future, be prepared to discuss your firm's proposal, staff assignments, project approach and other pertinent information. The presentation shall be approximately 30 minutes, allowing 30 minutes for a question and answer session. The Consultant's Project/Team Manager shall lead the presentation team and answer questions on behalf of the Consultant. If work involves a major sub-consultant, the firms Project/Team Manager's presence may also be requested (by the City) at the interview.
15. **Performance Warranty:** This section does not relieve Consultant from its obligation to provide Work and Materials/Design Materials appropriate to the purposes of this Project. Nothing in this Agreement creates any contractual liability between the City of Peoria and any Subcontractor; however, the City of Peoria is an intended third-party beneficiary of all contracts for services, all Subcontracts, purchase orders and other agreements between the Consultant and third parties. The Consultant must incorporate the obligations of this Agreement into its respective Subcontracts, supply agreements and purchase orders.
16. **Permits and Approvals:** Consultant agrees and undertakes to obtain necessary permits and approvals, as per the scope of work, from all local, state and federal authorities for the project. In all other cases, the consultant agrees to assist the city to obtain all necessary permits and approvals from all local, state, and federal authorities for the project.
17. **Inspection:** All work shall be subject to inspection, surveillance, and test by the City at reasonable times during the performance of the contract. The Consultant shall provide and maintain an inspection system which is acceptable to the City.
18. **Document Ownership:** Original design notes, and original tracings of the plans, as instruments of service shall remain the property of the Consultant. The Consultant shall provide the City with duplicate reproducible of original tracings on stable base (mylar) material, and two (2) sets of prints of the final tracings, without cost to the City. Final as-built plans will be on 4 mil, 24 x 36" double matte non-wash off photo mylar with no adhesive or sticky back attached. Original field notes (survey) and copy of design calculations and computer disc of the same shall be provided to the City.
19. **Use of Materials/Design Materials:** The City of Peoria shall have unlimited rights to copy and use in connection with the Project all Materials/Design Materials, including the right to use same on the Project at no additional cost to the City of Peoria, regardless of degree of completion, provided that said services performed have been fully paid for as required by the terms of this Agreement exclusive of amounts disputed by City of Peoria in good faith. The Consultant agrees to and does hereby grant to the City of Peoria and any assignee or successor of the City of Peoria as owner of the Project a royalty-free license to any such Materials/Design Materials as to which the Consultant may assert any rights under the patent or copyright laws. The Consultant hereby assigns outright and exclusively to the City of Peoria all copyrights of the Project. The Consultant, as part of its agreements with any Subcontractor or Subconsultant, will secure such license and use rights from each such entity, and shall defend, indemnify and hold the City of Peoria and any successors or assigns harmless from any claims from such for claims by such entities for copyright or patent infringement.
20. **Investigation of Conditions:** The Consultant warrants and agrees familiarity of the work that is required, is satisfied as to the conditions under which is performed and enters into this contract based upon the Consultants own investigation.



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21. **Compensation:** Compensation for services shall be based upon fees negotiated, including all approved costs and expenses incurred in connection with the project; including but not limited to, telephone and other communications, reproduction of documents, special consultants (as approved by the City) and computer costs.
22. **Acceptance:** Determination of the acceptability of work shall be completed in a responsive and professional manner and in accordance with the specifications, schedules, or plans which are incorporated in the Scope of Work.
23. **Payments:** The City shall pay the Consultant monthly, based upon work performed and completion to date, and upon submission of invoices. All invoices shall document and itemize all work completed to date. The invoice statement shall include a record of time expended and work performed in sufficient detail to justify payment.
24. **Price Adjustment:** The City of Peoria Purchasing Office will review fully documented requests for price increases after any contract has been in effect for one (1) year. Any price increase adjustment will only be made at the time of contract extension and will be a factor in the extension review process. The City of Peoria Materials Management Division will determine whether the requested price increase or an alternate option, is in the best interest of the City. Any price adjustment will be effective upon the effective date of the contract extension.
25. **Price Reduction:** A price reduction adjustment may be offered at any time during the term of a contract and shall become effective upon notice.
26. **Insurance Requirements:** The Consultant, at Consultant's own expense, shall purchase and maintain the herein stipulated minimum insurance with companies duly licensed, possessing a current A.M. Best, Inc. Rating of A-, or approved unlicensed in the State of Arizona with policies and forms satisfactory to the City.

All insurance required herein shall be maintained in full force and effect until all work or service required to be performed under the terms of the Contract is satisfactorily completed and formally accepted; failure to do so may, at the sole discretion of the City, constitute a material breach of this Contract.

The Consultant's insurance shall be primary insurance as respects the City, and any insurance or self-insurance maintained by the City shall not contribute to it.

Any failure to comply with the claim reporting provisions of the insurance policies or any breach of an insurance policy warranty shall not affect coverage afforded under the insurance policies to protect the City.

The insurance policies, except Workers' Compensation, shall contain a waiver of transfer rights of recovery (subrogation) against the City, its agents, representatives, directors, officers, and employees for any claims arising out of the Consultant's acts, errors, mistakes, omissions, work or service.

The insurance policies may provide coverage which contain deductibles or self-insured retentions. Such deductible and/or self-insured retentions shall not be applicable with respect to the coverage provided to the City under such policies. The Consultant shall be solely responsible for the deductible and/or self-insured retention and the City, at its option, may require the Consultant to secure payment of such deductibles or self-insured retentions by a Surety Bond or an irrevocable and unconditional letter of credit.

The City reserves the right to request and to receive, within 10 working days, certified copies of any or all of the herein required insurance policies and/or endorsements. The City shall not be obligated, however, to review same or to advise Consultant of any deficiencies in such policies and endorsements, and such receipt shall not relieve Consultant from, or be deemed a waiver of the City's right to insist on, strict fulfillment of Consultant's obligations under this Contract.

The insurance policies, except Workers' Compensation and Professional Liability, required by this Contract, shall name the City, its agents, representatives, officers, directors, officials and employees as Additional Insureds.



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### 27. Required Insurance Coverage:

#### a. Commercial General Liability

Consultant shall maintain Commercial General Liability insurance with a limit of not less than \$1,000,000 for each occurrence with a \$2,000,000 Products/Completed Operations Aggregate and a \$2,000,000 General Aggregate Limit. The policy shall include coverage for bodily injury, broad form property damage, personal injury, products and completed operations and blanket contractual coverage including, but not limited to, the liability assumed under the indemnification provisions of this Contract which coverage will be at least as broad as Insurance Service Office, Inc. Policy Form CG 00011093 or any replacements thereof. The coverage shall not exclude X, C, U.

Such policy shall contain a severability of interest provision, and shall not contain a sunset provision or commutation clause, nor any provision which would serve to limit third party action over claims.

The Commercial General Liability additional insured endorsement shall be at least as broad as the Insurance Service Office, Inc.'s Additional Insured, Form B, CG 20101093, and shall include coverage for Consultant's operations and products and completed operations.

If required by this Contract the Consultant subletting any part of the work, services or operations awarded to the Consultant shall purchase and maintain, at all times during prosecution of the work, services or operations under this Contract, an Owner's and Consultant Protective Liability insurance policy for bodily injury and property damage, including death, which may arise in the prosecution of the Consultant's work, service or operations under this Contract. Coverage shall be on an occurrence basis with a limit not less than \$1,000,000 per occurrence, and the policy shall be issued by the same insurance company that issues the Consultant's Commercial General Liability insurance.

#### b. Automobile Liability

Consultant shall maintain Commercial/Business Automobile Liability insurance with a combined single limit for bodily injury and property damage of not less than \$1,000,000 each occurrence with respect to the Consultant's any owned, hired, and non-owned vehicles assigned to or used in performance of the Consultant's work. Coverage will be at least as broad as coverage code 1, "any auto", (Insurance Service Office, Inc. Policy Form CA 00011293, or any replacements thereof). Such insurance shall include coverage for loading and off loading hazards.

#### c. Workers' Compensation

The Consultant shall carry Workers' Compensation insurance to cover obligations imposed by federal and state statutes having jurisdiction of Consultant's employees engaged in the performance of the work or services; and, Employer's Liability insurance of not less than \$100,000 for each accident, \$100,000 disease for each employee, and \$500,000 disease policy limit.

In case any work is subcontracted, the Consultant will require the Subcontractor to provide Workers' Compensation and Employer's Liability to at least the same extent as required of the Consultant.

#### d. Professional Liability

The Consultant retained by the City to provide the work or service required by this Contract will maintain Professional Liability insurance covering acts, errors, mistakes and omissions arising out of the work or services performed by the Consultant, or any person employed by the Consultant, with a limit of not less than \$1,000,000 each claim.

28. Certificates of Insurance: Prior to commencing work or services under this Contract, Consultant shall furnish the City with Certificates of Insurance, or formal endorsements as required by the Contract, issued by Consultant's insurer(s), as evidence that policies providing the required coverages, conditions and limits required by this Contract are in full force and effect.



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In the event any insurance policy(ies) required by this contract is(are) written on a "Claims made" basis, coverage shall extend for two years past completion and acceptance of the Consultant's work or services and as evidenced by annual Certificates of Insurance.

If a policy does expire during the life of the Contract, a renewal certificate must be sent to the City fifteen (15) days prior to the expiration date.

All Certificates of Insurance shall be identified with bid serial number and title. A \$25.00 administrative fee will be assessed for all certificates received without the appropriate bid serial number and title.

29. **Cancellation and Expiration Notice:** Insurance required herein shall not expire, be canceled, or materially changed with respect to coverage or rating of carrier. All other changes shall be with thirty (30) days prior written notice to the City.

30. **Independent Contractor:**

a. General

- i. The Consultant acknowledges that all services provided under this Agreement are being provided by him as an independent Consultant, not as an employee or agent of the City Manager or the City of Peoria.
- ii. Both parties agree that this Agreement is nonexclusive and that Consultant is not prohibited from entering into other contracts nor prohibited from practicing his profession elsewhere.

b. Liability

- i. The City of Peoria shall not be liable for any acts of Consultant outside the scope of authority granted under this Agreement or as the result of Consultant's acts, errors, misconduct, negligence, omissions and intentional acts.
- ii. To the fullest extent permitted by law, the Consultant shall defend, indemnify and hold harmless the City, its agents, representatives, officers, directors, officials and employees for costs or damages for which the Consultant is legally responsible or for which the City is vicariously liable on account of the Consultant's willful or negligent acts, errors or omissions.

The amount and type of insurance coverage requirements set forth herein will in no way be construed as limiting the scope of the indemnity in this paragraph.

c. Other Benefits

The Consultant is an independent Consultant, therefore, the City Manager will not provide the Consultant with health insurance, life insurance, workmen's compensation, sick leave, vacation leave, or any other fringe benefits. Further, Consultant acknowledges that he is exempt from coverage of the Comprehensive Benefit and Retirement Act (COBRA). Any such fringe benefits shall be the sole responsibility of Consultant.

31. **Key Personnel:** It is essential that the Consultant provide adequate experienced personnel, capable of and devoted to the successful accomplishment of work to be performed under this contract. The Consultant must agree to assign specific individuals to the key positions.

- a. The Consultant agrees that, once assigned to work under this contract, key personnel shall not be removed or replaced without written notice to the City.
- b. If key personnel are not available for work under this contract for a continuous period exceeding 30 calendar days, or are expected to devote substantially less effort to the work than initially anticipated, the Consultant shall immediately notify the City, and shall, subject to the concurrence of the City, replace such personnel with personnel of substantially equal ability and qualifications.



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- ii. To the fullest extent permitted by law, the Consultant shall defend, indemnify and hold harmless the City, its agents, representatives, officers, directors, officials and employees for costs or damages for which the Consultant is legally responsible or for which the City is vicariously liable on account of the Consultant's willful or negligent acts, errors or omissions.

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32. **Unifier Project Management System:** Awarded vendors may be required to utilize the City's Project Management System, Unifier, for the management of business processes and information regarding the awarded contract. Unifier is an on-line application and will be made available to awarded vendors at no additional charge. Vendors will utilize Unifier to submit and process information to the City such as: Field Change Order Requests, RFI's, Submittals, Payment Applications, Meeting Minutes, etc. Training will be offered to the vendors at no additional charge.
33. **Confidential Information:**
- If a person believes that a bid, proposal, offer, specification, or protest contains information that should be withheld, a statement advising the Materials Supervisor of this fact shall accompany the submission and the information shall be identified.
  - The information identified by the person as confidential shall not be disclosed until the Materials Supervisor makes a written determination.
  - The Materials Supervisor shall review the statement and information and shall determine in writing whether the information shall be withheld.
  - If the Materials Supervisor determines to disclose the information, the Materials Supervisor shall inform the bidder in writing of such determination.
34. **Confidentiality of Records:** The Consultant shall establish and maintain procedures and controls that are acceptable to the City for the purpose of assuring that information contained in its records or obtained from the City or from others in carrying out its functions under the contract shall not be used or disclosed by it, its agents, officers, or employees, except as required to efficiently perform duties under the contract. Persons requesting such information should be referred to the City. Consultant also agrees that any information pertaining to individual persons shall not be divulged other than to employees or officers of Consultant as needed for the performance of duties under the contract. These provisions shall not restrict the Design Professional from giving notices required by law or complying with an order to provide information or data when such order is issued by a court, administrative agency or other authority with proper jurisdiction.
35. **Ordering Process:** Upon award of a contract by the City of Peoria, Materials Management Division may procure the specific service awarded by the issuance of a purchase order to the appropriate Consultant. The award of a contract shall be in accordance with the City of Peoria Procurement Code and all transactions and procedures required by the Code for public bidding have been complied with. A purchase order for the awarded service that cites the correct contract number is the only document required for the department to order and the Consultant to deliver the service.
- Any attempt to represent any service not specifically awarded as being under contract with the City of Peoria is a violation of the contract and the City of Peoria Procurement Code. Any such action is subject to the legal and contractual remedies available to the City inclusive of, but not limited to, contract cancellation, suspension and/or debarment of the Consultant.
36. **Billing:** All billing notices to the City shall identify the specific item(s) being billed and the purchase order number. Items are to be identified by the name, model number, and/or serial number most applicable. Any purchase/delivery order issued by the requesting agency shall refer to the contract number resulting from this solicitation.
37. **Multiple Awards:** In order to assure that any ensuing contracts will allow the City to fulfill current and future requirements, the City reserves the right to award contracts to multiple companies. The actual utilization of any contract will be at the sole discretion of the City. The fact that the City may make multiple awards should be taken into consideration by each potential contractor.
38. **Contract Termination:** Any contract entered into as a result of this Solicitation is for the convenience of the City and as such, may be terminated without default by the City by providing a written thirty (30) day notice of termination.



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39. **Cancellation:** The City reserves the right to cancel the whole or any part of this contract due to failure by the Consultant to carry out any obligation, term or condition of the contract. The City will issue written notice to the Consultant for acting or failing to act as in any of the following:

- a. The Consultant provides material that does not meet the specifications of the contract;
- b. The Consultant fails to adequately perform the services set forth in the specifications of the contract;
- c. The Consultant fails to complete the work required or to furnish the materials required within the time stipulated in the contract;
- d. The Consultant fails to make progress in the performance of the contract and/or gives the City reason to believe that the Consultant will not or cannot perform to the requirements of the contract.

Upon receipt of the written notice of concern, the Consultant shall have ten (10) days to provide a satisfactory response to the City. Failure on the part of the Consultant to adequately address all issues of concern may result in the City resorting to any single or combination of the following remedies:

- a. Cancel any contract;
- b. Reserve all rights or claims to damage for breach of any covenants of the contract;
- c. Perform any test or analysis on materials for compliance with the specifications of the contract. If the results of any test or analysis find a material non-compliant with the specifications, the actual expense of testing shall be borne by the Consultant;
- d. In case of default, the City reserves the right to purchase materials, or to complete the required work in accordance with the City Procurement Code. The City may recover any actual excess costs from the Consultant by:
  - i. Deduction from an unpaid balance;
  - ii. Or any other remedies as provided by law.

40. **Project Travel Reimbursable Expenses:** If travel expenses are allowed as part of the contract the reimbursable expenses will be as follows. All expenses will be billed to the City at cost without markup. Copies of bills for expenses are to be submitted with the invoice. Travel time to and from job site is excluded from this contract. There will be no allowances for parking or personal car mileage. No incidentals for travel of any kind are allowed under this contract.

The following is a list of allowable travel expenses under this contract agreement:

- a. Transportation:
  - i. Air Transportation – coach class fares, minimum 14 days advanced purchase, unless otherwise agreed upon.
  - ii. Car Rental – mid size car, gas for rental car (City assumes no liability regarding additional insurance costs).
- b. Lodging and Meals:
  - i. Meals – three meals per day, at the current federal per diem rate for Maricopa County.
  - ii. Lodging – not to exceed the current federal rate for Maricopa County. Vendors are encouraged to stay in hotels located within the City of Peoria when practical. A listing of accommodations within Peoria can be found on the following website: <http://visitpeoriaaz.com/accommodations.php>



## SCOPE OF WORK

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## GEOTECHNICAL TESTING SERVICES SCOPE OF WORK

### I. PURPOSE

The City of Peoria is scheduled to construct several capital improvement projects over the coming years, including but not limited to; street construction, street maintenance, storm drain, water, wastewater vertical facility construction and park improvement projects, and has a need for on-call material testing and geotechnical services, therefore, the City is requesting proposals from consultants to provide materials testing and geotechnical services, including but not limited to; all personnel, materials and equipment to perform sampling, testing, drilling and documentation for various projects. Boundaries of the services would be restricted to City limit boundaries. Specific projects and detailed scopes will be determined as the need for these arise during the course of the year. Please refer to the City's webpage ([www.peoriaaz.gov](http://www.peoriaaz.gov)) for a copy of the City's 10 year Capital Improvement Program.

### II. PROJECT BUDGET

The City of Peoria will fund these services with available funds in the Capital Improvement Program.

### III. GENERAL INFORMATION

#### A. Authority

The line of authority under the contract is from the Project Manager of the respective Department, to the City's Inspection Division and then to the Consultant. The Consultant is responsible for performing all tests, services and evaluations required under this contract. The Consultant's field personnel shall be in charge of all field work assigned to them and shall be under the direction of both the City and the Consultant. The Consultant is responsible for acquiring all required street-opening and traffic control permits.

Key individuals and team members are to remain for the duration of the project, and changes cannot be made without City of Peoria approval.

#### B. Document Ownership and Examination

Any authorized representative of the City shall, at all reasonable times, have the right to inspect, examine and copy any and all documents relating to the work. The Consultant shall provide these copies to said representatives at no cost to the City. All original documents, immediately upon completion of the work, shall be delivered to the respective City of Peoria Department. The Consultant may retain copies of any or all documents if he/she so desires.



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#### C. Purchase Orders

Purchase Orders will be generated for each specific project. The City may, at its option, utilize other geotechnical testing consultants for testing services depending on the size and scope of the project.

All reports and invoices shall contain the City assigned capital project number and the solicitation number from this contract.

- D. The City expects the consultant to respond to the City's request in a timely manner as feasibly possible, which includes starting and completing the field work and submitting test results and reports.

#### IV. TECHNICAL QUALIFICATIONS

Proposals will be evaluated on both technical qualifications of the personnel assigned to the consulting and materials testing program and unit cost proposals for the geotechnical consulting and materials testing services described below.

- A. Name and license number(s) of the Engineer, Assayer, Geologist, or Landscape Architect Registered in the State of Arizona who will be responsible for the City of Peoria - Materials Testing and Geotechnical Services
- B. Names of personnel who will be the primary team members assigned to provide materials testing and geotechnical services.
- C. Provide an organizational chart of each team member of the consultant's team. Describe the role and responsibilities of each team member, including the major subcontractors and sub-consultants
- D. Provide current certification(s), licenses and lab credentials of responsible personnel assigned to provide materials testing and geotechnical services. Field Technicians shall be certified at Level II or higher by the National Institute for Certification in Engineering Technologies (NICET) in appropriate field and sub-field or have a minimum of two years experience, as acceptable to the City, in performing the specific tests. Certification as a Concrete Field Testing Technician, Grade I, by the American Concrete Institute (ACI) will be an acceptable alternate qualification for concrete sampling and testing only.
- E. Resumes of responsible registrant and all personnel assigned to provide materials testing and geotechnical services.
- F. Demonstrate the team's ability to commit necessary resources to successfully complete any project that may be awarded.
- G. The consultant shall provide information demonstrating the firm's qualifications for performing work included in this Proposal. The information is to include a list of project experience within the past five (5) years.
- For each project listed, provide:
1. A brief description of the project.



## SCOPE OF WORK

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2. Name of owner for whom the work was performed.
  3. Name and phone numbers of owner's representatives who can verify and discuss the firm's participation in these projects.
- H. The consultant shall provide information on how the QA/QC responsibilities, including sampling and testing services will be performed on each specific project. It is anticipated that the City of will provide direction on QA/QC procedures.
- I. Key individuals and team members are to remain for the duration of the project, and changes cannot be made without City of Peoria approval.

#### V. MATERIAL TESTING SERVICES

##### A. Testing Laboratory

The materials testing services listed below may be requested for various types of City projects, including water, wastewater, storm drain, street construction and street maintenance and vertical construction. Please provide unit costs for each specified test, service and hourly rates for attending meetings. Unit costs for each test will include all trip charges, pickup, sampling time, laboratory analysis, the generation of two (2) copies of the reports and the original report are to be submitted to the respective City of Peoria Department requesting the proposal and all other associated costs.

The firm shall attend scoping meetings to review and discuss the scope of the specific construction project and develop a technical proposal. The consultant shall also be responsible to:

##### B. Attend Pre-Construction Conference

1. Responsible registrant and/or primary technical contact for the geotechnical firm shall attend the meeting. The City's Project Manager or Off-Site Inspector will coordinate and schedule testing services with this representative.
2. Preconstruction Conferences are generally one to two hours in duration and are located at the City Hall complex, 9875 N 85<sup>th</sup> Avenue, Peoria, Arizona 85345.

##### C. Testing

All tests performed shall conform in all respects to the qualifications contained in the latest editions of the appropriate publications of the American Society for Testing and Materials (ASTM), The American Association of State Highway and Transportation Officials (AASHTO) and the American Concrete Institute (ACI) Manual of Concrete Practice. The laboratory performing services under this contract shall conform to ASTM E-329. Any laboratory performing services under this contract shall be able to verify its independence from the construction contractor and subcontractor, if any, whose work is being tested.



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Fax: (623) 773-7118

### D. Batch Plant Evaluation

These evaluations shall be performed as described below and only when specifically required and as directed by the Project Manager. Each test shall conform to the specifications indicated.

The unit price bid for each type of batch plant evaluation shall include all costs for the evaluation described and the furnishing of the required reports.

#### 1. Asphalt Batch Plant Evaluation

This item shall conform to ASTM D-290 (Bituminous Mixing Plant Inspection) and shall be the basis for determining if the batch plant is capable of producing and is producing the required Job Mix Asphalt.

#### 2. Concrete Batch Plant Evaluation

This item shall conform to ASTM C-94 (Ready Mixed Concrete) and shall be the basis for determining if the batch plant is capable of producing and is producing the required Job Mix Concrete.

### E. Tests

The tests described below shall be performed only as requested and directed by the Project Manager. Each test shall conform to the specifications indicated. The unit price bid for each type of field test shall include all costs for the test described; including traffic control, mileage and the furnishing of the required reports. **Two (2) copies of each test report plus original are required.**

All tests requiring coring shall be subject to the following two (2) additional requirements. The first is that the cored hole shall be filled with material approved by the Project Manager or the City's Inspection Division. The second is that a representative of the City's Inspection Division may observe the performance of these tests.

**Test reports covering different testing sites under various locations will not be accepted. Each test report must include the City of Peoria project name and project number, the solicitation of this contract, exact location of the test, name of the individual requesting the test, the date of the request and the date the test was performed. All reports should be sent to the Project Manager and the City's Inspection Division.**

#### 1. Asphalt Density Test

This test shall conform to ASTM D-2950 (Density of Bituminous Concrete in Place by Nuclear Method). All tests shall be made at the time of placement of the asphalt at locations furnished by the Project Manager or the Inspector.



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### 2. Thickness of Compacted Asphalt Test

This test shall conform to ASTM D-3549 (Thickness or Height of Compacted Bituminous Paving Mixture Specimens). Cores shall be drilled in a random pattern along the pavement of each lane as directed.

### 3. Concrete Compression, Slump & Temperature Check Tests (Field)

This item includes making and curing cylinders in the field and testing them in the laboratory. These tests shall conform to ASTM C-31 (Making and Curing Concrete Test Specimens in the Field) and ASTM C-39 (Compressive Strength of Cylindrical Concrete Specimens) and as herein modified. All samples shall be obtained as stated in ASTM C-172 (Sampling Fresh Concrete).

Each Concrete Compression Test shall be composed of a set of four (4) concrete test specimens made in conformity with ASTM C-31 (Making and Curing Concrete Test Specimens in the Field) at locations as specified by the engineer.

One (1) cylinder from each set of four (4) shall be compression tested at seven (7) days, one (1) cylinder at fourteen (14) days or as directed by the City's Inspection Division, and a written report, including results of slump and air entrainment tests and the concrete temperature, shall be forwarded to the PM and the City's Inspection Division within twenty-four (24) hours of the test completion. The two (2) remaining cylinders shall be compression tested at twenty-eight (28) days and a written report of each individual cylinder test and their average shall be forwarded to the PM and the City's Inspection Division within twenty-four (24) hours of the test completion. The cost of picking up test cylinders, whether on a holiday, weekend or at night shall be included in the unit price bid for each set tested.

The testing laboratory shall notify the Project Manager or the City's Inspection Division by telephone immediately on the occurrence of any of the following three (3) conditions:

- a. Any or all of the concrete test specimens of any set are lost or damaged in the field.
- b. Any or all of the concrete test specimens of any set are lost or damaged by the testing laboratory.
- c. Any results of the seven (7) day test, fourteen (14) day and twenty eight (28) day test are below project specifications.

The unit price bid for this item shall include making the four (4) cylinders (one set) in the field, curing, testing and the report. **Included in the report should be the exact location of each set of cylinders tested. Reports, which do not include this information, will be rejected. Additionally, no payment will be made for any set which includes less than four (4) cylinders.**



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#### 4. Concrete Compression, Slump & Temperature Check Tests (Lab)

This item includes making, curing and testing cylinders in the laboratory. These tests shall conform to ASTM C-192 (Making and Curing Test Specimens in the Laboratory), ASTM C-143 (Slump of Portland Cement Concrete), ASTM C-1064 (Test Method for Temperature of Freshly Mixed Concrete) and ASTM C-39 (Compressive Strength of Cylindrical Concrete Specimens).

#### 5. Concrete Core Samples for the Determination of Concrete Compressive Strength

These samples shall be obtained and compression tested as per ASTM C-42 (Obtaining and Testing Drilled Cores and Sawed Beams of Concrete) and

ASTM C-39 (Compressive Strength of Cylindrical Concrete Specimen). The concrete to be cored ranges from four (4) to twelve (12) inches in thickness.

The unit price bid to obtain the cores in the field shall include coring, transportation, storage and traffic maintenance.

The pay item testing concrete cores obtained in the field shall include necessary preparation.

#### 6. Analysis of Aggregates

This item covers sampling and testing aggregates used in subbase courses, bituminous paving mixes and concrete mixes. The sample of the aggregate shall be taken as per ASTM D-75 (Sampling Aggregate) and reduced to the proper test size. The sample shall be tested as per ASTM C-136 (Sieve Analysis of Fine and Course Aggregates).

#### 7. Weight and Void Analysis of Aggregate Test

This item covers the determination of unit weight and calculated voids. This test shall conform to ASTM C-29 (Unit Weight and Voids in Aggregate).

#### 8. Specific Gravity and Absorption Analysis of Aggregate Test

This item covers the determination of specific gravity and absorption of course aggregate. This test shall conform to ASTM C-127 (Specific Gravity and Absorption of Course Aggregate).

#### 9. Soil Test

This item covers the determination of the soil density and percent compaction. The density of the soil or soil-aggregate shall be taken as per either ASTM D-2922 (Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)), ASTM D-1556 (Density of Soil in Place by the Sand-Cone Method), or any combination of these tests as required and directed by the Commissioner.

This density shall be compared to the maximum density as determined by the Moisture-Density Test as per ASTM D-698 (Moisture-Density Relations of Soils and Soil-Aggregate Mixtures using 5.5 lbs. (2.49 kg) Rammer and 12 in. (305 mm) Drop).



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### 10. Pavement Cores

This item covers obtaining pavement cores as requested and directed by the PM or the City's Inspection Division to determine pavement composition as per ASTM C-42 (Obtaining and Testing Drilled Cores and Sawed Beams of Concrete), ASTM D-3549 (Thickness of Compacted Bituminous Specimens) and ASTM C-174 (Measuring Length of Drilled Concrete Cores). When required, testing of concrete base for compressive strength shall be as per ASTM C-39 (Compressive Strength of Cylindrical Concrete Specimens). Concrete bases will be tested only when authorized by the Project Manager. The cores shall be four (4) to six (6) inches in diameter and in all instances be to subgrade. The number of cores per site will vary. The unit price bid quoted for any pavement cores shall include traffic control.

The price quoted for testing concrete portion of the core shall include necessary preparation.

### F. Day/Night Work & Permits

#### 1. Day/Night Work

All work performed between the hours of 6:00 a.m. and 6:00 p.m. shall be designated as day work and work performed between the hours of 6:00 p.m. and 6:00 a.m. shall be designated as night work. Night work will be performed when requested and directed by the Project Manager or the City's Inspection Division

#### 2. Permits

The Consultant shall obtain required City of Peoria Off Sight permits and Traffic Control permits from the Engineering Department.



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## VI. GEOTECHNICAL SERVICES

### A. Introduction

This request is for geotechnical services required for engineering purposes and for obtaining soil samples. Before each request for soil information is issued the City will contact the Consultant and request their input on the number and depths of soil boring and material test to be performed.

### B. Scope of Services

A registered professional engineer shall make a soil survey for engineering design with experience on this type of work. Borings shall be made under the supervision of the engineer by a qualified contractor and performed in accordance with current applicable standards.

The geotechnical engineer is to obtain sufficient borings and samples and perform appropriate tests in order to be able to advise the City of Peoria of soil conditions so that a pavement or structure design may be achieved using local design standards.

The pricing submitted in this section will be used as the basis of negotiation for each specific project.

Where the soil borings are to be used to design foundations, either spread or pile supported, or to check existing foundations, the geotechnical engineer is to obtain sufficient borings and samples and perform appropriate tests in order to be able to advise the City of the soil conditions. Furthermore, sufficient data shall be assembled such that foundation design criteria recommendations can be supplied as part of the report.

The City will locate and furnish an elevation for each boring.

### C. Other Terms and Specifications

1. The specific work items shall be completed and all reports delivered to the City within the time period stated in the proposal for routine items, or as negotiated for special projects.
2. Qualified personnel, under the supervision of a Registered Professional Engineer shall perform all work. All tests shall be performed as per The American Society for Testing Materials (ASTM). All reports shall bear the signature and seal of a Registered Professional Engineer.
3. A fancy report is not required. Three (3) copies of the findings will be required.
4. The unit price bid per foot of soil boring shall include visual classification, samples at 2 1/2 foot intervals and samples at all material changes. Normally, a minimum of three (3) soil borings, each ten (10) to twenty (20) feet in depth, will be requested for each location.
5. For the geotechnical services section only, the "Site" is defined as the location of each proposed project.



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6. The "Minimum Daily Rate" is the minimum amount to be paid per day per proposed project. This applies to soil surveys only.
7. The unit price quoted for each test shall include the sampling, transporting, testing and test report.
8. The analysis and recommendations for the report shall be listed under Geotechnical Engineering Professional Services.
9. The typing, drafting, data reduction and etc. for the report shall be listed for under "Clerical Work".

### VII. COMPENSATION

The unit prices quoted for the various services listed on the **Price Sheets** shall include all labor for field work, transportation costs, mobilization costs, storage costs, subsistence, secretarial service, office supplies, materials, equipment, reproduction, postage, and other miscellaneous costs pertinent to the services to be provided under this testing, geotechnical and audio/visual documentation services agreement.

The City Engineer reserves the right to eliminate any portion or all of the work or service. In the event of such termination, the Consultant shall be paid for services rendered up to the time of termination.

The Consultant shall submit invoices for payment on a monthly basis. **No test shall be invoiced until after the results of the test have been received by the City.** The Consultant's invoice shall identify the project name, the City's project number, the City's Project Manager, the purchase order number, each test, for which payment is claimed, by test type and test report number for each construction project. All invoices shall be summarized by test type and shall include any previous amount due, the amount due under this invoice and the new total amount of work invoiced to date.



## SUBMITTAL REQUIREMENTS

Solicitation Number: P08-0055

### Materials Management Procurement

8314 West Cinnabar Street  
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Phone: (623) 773-7115

Fax: (623) 773-7118

**I. Proposal Format:** Proposals shall be submitted in one (1) original and five (5) copies on the forms and in the format as contained in this Request for Proposal. The proposals should be submitted in the maximum length of 20 pages. **DO NOT BIND THE ORIGINAL COPY.**

**II. Proposal Content:** -The following items shall be addressed in the proposal submission:

**A. Project Understanding & Approach**

- Plan and Method of Approach to accomplish the Scope of Work
- Understanding of the Scope of Work
- Anticipated City Involvement

**B. Experience:**

- Firm's & Staff's Experience
- Overall firm and staff projected workload
- Location of office performing the services

**C. Cost/Fee Proposal**

- Offeror shall complete the Price Sheet on Pages 25-26.
- In addition to the Price Sheet, firms may provide a separate supplemental rate sheet for other testing services not specifically listed on the price sheet that your firm can provide.

**D. References from Similar Projects:**

- Three (3) Owner references from completed or ongoing projects within the last five (5) years
- Offeror shall complete the Reference Questionnaire on Page 27

**E. Additional Data Support (optional):**

- Service Enhancements
- Professional Affiliations
- Detailed Resumes

**F. Exceptions:**

- Any exceptions to any part of the RFP must be clearly noted and identified

**III. Evaluation:** In accordance with the City of Peoria Procurement Code, awards shall be made to the responsible offeror whose proposal is determined in writing to be the most advantageous to the City, based upon the evaluation criteria listed below. The evaluation factors are listed in their relative order of importance.

- a. Project Understanding & Approach
- b. Firm's & Staff's Experience;
- c. Cost/Fee Proposal;
- d. References from Similar Projects;
- e. Conformance to the Request for Proposals.

The City reserves the right to consider historic information and facts, whether gained from the Offeror's proposal, questions and answer conferences, references, or other source and the views of the evaluator(s) with prior Contract or service delivery experience with any of the Offerors, while conducting the proposal evaluations.



## SUBMITTAL REQUIREMENTS

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#### IV. Proposal Due Date and Contact Information:

Proposals are due no later than 5:00 P.M., Arizona Time, on May 29, 2008.

Proposals shall be submitted in one (1) original and five (5) copies and shall be delivered to:

City of Peoria  
Materials Management  
**RFP# P08-0055, Material & Geotechnical Testing Services**  
8314 West Cinnabar  
Peoria, Arizona 85345

Proposals must be submitted in a sealed envelope or package with the solicitation number and the Offeror's name and address clearly indicated on the envelope or package. No faxed or electronic proposals will be considered.

All questions regarding this RFP shall be submitted in writing no later than **forty eight (48) hours** prior to proposal close to Christine Finney, Buyer at E-mail: [Christine.Finney@PeoriaAZ.gov](mailto:Christine.Finney@PeoriaAZ.gov) or via fax at (623)773-7118.

**Contact with City staff, other than the designated contact person indicated in the RFP, regarding this solicitation is strictly prohibited during the proposal process.**



# PRICE SHEET

Solicitation Number: **P08-0055**

**Materials Management  
Procurement**  
8314 West Cinnabar Street  
Peoria, Arizona 85345-6560  
Phone: (623) 773-7115  
Fax: (623) 773-7118

Item	Description of material and/or services	Est. Annual Quantity	Unit	Unit Price	Annual Price
	The Consultant is requested to furnish unit prices for each of the following items of Work:				
001	Asphalt Batch Plant Evaluation (ASTM D-290)	10	Each	\$ <u>400</u>	\$ <u>4,000</u>
002	Asphalt Density Test: Technician with nuclear densometer - Day Test	50	Hour	\$ <u>45</u>	\$ <u>2,250</u>
003	Asphalt Density Test : Technician with nuclear densometer Night Test	5	Hour	\$ <u>45</u>	\$ <u>225</u>
004	Thickness of Compacted Asphalt Test (ASTM D-3549)	5	Each	\$ <u>38</u>	\$ <u>190</u>
	<b>CONCRETE/AGGREGATES</b>				
005	Concrete Batch Plant Evaluation (ASTM C-94)	5	Each	\$ <u>400</u>	\$ <u>2,000</u>
006	Making and Curing Concrete Test Cylinders in the Field (ASTM C-31), Slump Test (ASTM C-143), Temperature Test (ASTM C-1064) & Compressive Strength Test (ASTM C-39) 4 specimens per set Day Test <b>Immediate response required</b>	10	Each	\$ <u>100</u>	\$ <u>1,000</u>
007	Subsequent Slump Test (ASTM C- 143) Day Test	10	Each	\$ <u>25</u>	\$ <u>250</u>
008	Subsequent Temperature Test (ASTM C-1064) Day Test	10	Each	\$ <u>10</u>	\$ <u>100</u>
009	Making and Curing Concrete Test Cylinders in the Field (ASTM C-31), Slump Test (ASTM C-143), Temperature Test (ASTM C-1064) & Compressive Strength Test (ASTM C-39) 4 specimens per set Night Test <b>Immediate response required</b>	10	Sets	\$ <u>100</u>	\$ <u>1,000</u>
010	Subsequent Slump Test (ASTM C- 143) Night Test	5	Each	\$ <u>25</u>	\$ <u>125</u>
011	Subsequent Temperature Test (ASTM C-1064) Night Test	5	Each	\$ <u>10</u>	\$ <u>50</u>
012	Making and Curing Concrete Test Cylinders in the Lab (ASTM C-192), Slump Test (ASTM C-143), Temperature Test (ASTM C-1064) & Compressive Strength Test (ASTM C-39)	5	Each	\$ <u>150</u>	\$ <u>750</u>
013	Obtaining pavement core (ASTM C- 42) or (ASTM D-3549) and determining pavement composition & thickness (ASTM C-174) or (ASTM D-3549)	10	Each	\$ <u>60</u>	\$ <u>600</u>
014	Determining compressive strength of concrete base obtained per Item 013 above (ASTM C-39)	10	Each	\$ <u>15</u>	\$ <u>150</u>
015	Obtaining deck pavement core (ASTM C-42) & determining thickness (ASTM C-174)	2	Each	\$ <u>60</u>	\$ <u>120</u>
016	Obtaining deck pavement core (ASTM C-42), determining thickness (ASTM C-174) & compressive strength (ASTM C-39)	2	Each	\$ <u>75</u>	\$ <u>150</u>



# PRICE SHEET

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Item	Description of material and/or services	Est. Annual Quantity	Unit	Unit Price	Annual Price
017	Obtaining concrete core and performing Petrographic Examination of Hardened Concrete Test (ASTM C-856)	2	Each	\$ <u>1,500</u>	\$ <u>3,000</u>
018	Flexural Strength of Concrete (Beam) Test (ASTM C-78)	2	Each	\$ <u>45</u>	\$ <u>90</u>
019	Soundness of Aggregates Test (ASTM C-88)	5	Each	\$ <u>205</u>	\$ <u>410</u>
020	Sieve Analysis of Fine & Coarse Aggregates Test (ASTM C-136)	5	Each	\$ <u>88</u>	\$ <u>440</u>
021	Aggregate Weight & Voids Test (ASTM C-29)	5	Each	\$ <u>50</u>	\$ <u>250</u>
022	Aggregate Specific Gravity and Absorption Test (ASTM C-127)	5	Each	\$ <u>55</u>	\$ <u>275</u>
023	Petrographic Examination of Aggregates for Concrete Test (ASTM C-295)	2	Each	\$ <u>1,500</u>	\$ <u>3,000</u>
<b>SOILS</b>					
024	Laboratory Compaction Characteristics of Soil - Proctor Test (ASTM C-698)	10	Each	\$ <u>135</u>	\$ <u>1,350</u>
025	Soil/Aggregate Density Test Technician w/Nuclear Density Meter <b>Immediate response required</b>	50	Hour	\$ <u>45</u>	\$ <u>2,250</u>
026	Sand-Cone Density Test (ASTM D-1556)	5	Each	\$ <u>50</u>	\$ <u>250</u>
027	CBR (California Bearing Ratio) of Soils in Place (ASTM D-4429)	10	Each	\$ <u>N/A Available @ T&amp;M</u>	
028	CBR (California Bearing Ratio) of Laboratory-Compacted Soils (ASTM D-1883)	10	Each	\$ <u>360</u>	\$ <u>3,600</u>
029	Soil Borings, cased or uncased, standard penetration test, samples at 2 1/2 foot intervals and material changes for depths up to and including twenty (20) feet	10	L.F.	\$ <u>50</u>	\$ <u>500</u>
030	Moisture Content of Soils Test (ASTM D-2216)	10	Sites	\$ <u>16</u>	\$ <u>160</u>
031	Liquid and Plastic Limits of Soils Test (ASTM D-4318)	10	Sites	\$ <u>82</u>	\$ <u>820</u>
032	Particle-Size Analysis of Soils Test (ASTM D-422)	10	Each	\$ <u>232</u>	\$ <u>2,320</u>
033	Unconfined Compressive Strength of Soils Test (ASTM D-2166)	10	Each	\$ <u>68</u>	\$ <u>680</u>
034	Direct Shear Test of Soils (ASTM D-3080)	1	Each	\$ <u>50</u>	\$ <u>50</u>
<b>TOTAL</b>					<b>\$ <u>32,405</u></b>

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## Supplemental Rate Sheet

Converse has prepared the following additional rates for items not specifically requested by the City of Peoria. Please note that costs for a given project will be tailored to a specific scope of work. Some costs are estimated for today's economic conditions. Standard labor rates for personnel are included on a separate sheet entitled "Schedule of Fees"

1. Refraction Microtremor (ReMi) Survey in accordance with the 2000 IBC for subsurface profile classification for seismic design  
\$ 3,000.00/Day
2. Vibration Monitoring  
Cost + 15% (Estimated \$ 2,000.00/Day)
3. Traffic Control Plan – Single Lane Closure  
Cost + 15% (Estimated \$ 500.00/Day)
4. Traffic Control Plan – Dual Lane Closure  
Cost + 15% (Estimated \$ 1,000.00/Day)
5. Drilling Contractor – SPT/Split Spoon Sampling – standard soil boring  
Cost + 15%
6. Standard Trip Charge – All Converse Field Personnel  
\$ 100.00/Trip
7. Standard Mileage Rate  
\$ 0.55/mi
8. City of Peoria Off Site Permits  
\$ 25.00/each
9. Certified Dust Control Training, Including Maricopa County Certification, 10 Student Minimum, 35 Student Maximum  
\$ 225.00/Student





# Schedule of Fees

## Introduction

It is the objective of Converse to provide to its clients quality professional and technical services and a continuing source of professional advice and opinions. Environmental services will be performed in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. This fee schedule is valid through January 31, 2009.

## Hourly Charges for Personnel

1. Field Monitor	\$ 45	8. Staff Professional	\$ 80
2. Staff Support and Clerical	55	9. Senior Staff Professional	85
3. Field Technician	55	10. Project Professional/GIS Specialist	100
4. Word Processor/GIS Technician	65	11. Senior Professional	120
5. Senior Technician	70	12. Certified Industrial Hygienist	135
6. Supervisory Technician/GIS Analyst	75	13. Principal Professional	150
7. Graphics	80	14. Officer	180

An overtime charge of 50 percent of the above hourly rates will be added for hourly personnel (No. 1 through No. 7) for time in excess of eight hours per day and for all time on Saturdays, Sundays, and holidays.

## Special Equipment and Services

1. Additional charges for field and laboratory equipment, materials, drilling services, and miscellaneous items will be charged as shown on other Schedules (attached if applicable), or as provided in proposal.
2. Expert Witness and deposition rates are 1.5 times the hourly rate.

## Expenses

1. Subcontracted services or exploration expenses (drilling, trenching, laboratory, surveying, contractors, etc.) are charged at cost plus 15 percent.
2. Travel and subsistence expenses (transportation, room and board, etc.) for individuals on projects requiring travel and/or living away from a home office are charged at cost plus 15 percent.
3. Automobile and truck expenses are charged at cost plus 15 percent or at a rate of 50 cents per mile for company-owned vehicles traveling between home office and project.

## Invoices

1. Invoices will be submitted to the client on a monthly basis, and a final bill will be submitted upon completion of services.
2. Payment is due upon presentation of invoice and is past due thirty (30) days from invoice date. In the event Client fails to pay any payment to Converse when due, Converse may immediately cease work hereunder and/or withhold reports until said payment, together with a service charge at the rate of eighteen percent (18%) per annum (but not exceeding the maximum allowed by law) from the due date, has been received. Further, Converse may at its sole option and discretion refuse to perform any further work irrespective of payment from Client in the event Client fails to pay Converse for services rendered when said payments are due.
3. Attorney's fees or other costs incurred in collecting any delinquent amount shall be paid by Client.

## ~~General Conditions~~

~~The terms and provisions of the Converse General Conditions are incorporated into this fee schedule as though set forth in full. If a copy of the General Conditions does not accompany this fee schedule, client should request a copy from this office.~~

*DA*  
7/23/08



# QUESTIONNAIRE

Materials Management  
Procurement  
8314 West Cinnabar Street  
Peoria, Arizona 85345-6560  
Phone: (623) 773-7115  
Fax: (623) 773-7118

Solicitation Number: P08-0055

Please list a minimum of three (3) owner references from projects of similar size and scope whom the Materials Management Division may contact:

1. Company: ARIZONA METRO MIX  
 Contact: BOB MATTHEWS Phone: 480.882.9984  
 Address: 4639 VIRGINIA ST., #102  
MESA AZ 85215  
 E-mail Address: B.MATTHEWS@AZMETROMIX.COM  
 Project Description: BATCH PLANT INSPECTION, CONCRETE MIX DESIGN,  
CONCRETE / AGGREGATE QA/QC
  
2. Company: ELLISON & GRENIER ENGINEERING, LLC  
 Contact: ARNOLD ELLISON, PE Phone: 480 831 1170  
 Address: 4515 S. Mc CLINTOCK DR. SUITE 211  
TEMPE AZ 85282  
 E-mail Address: AELLISON@ELLISONGRENIER.COM  
 Project Description: MATERIALS TESTING, SPECIAL INSPECTIONS, MISC. PROJECTS
  
3. Company: SITHE GLOBAL  
 Contact: KELLY MERRITT Phone: 713.499.1129  
 Address: 3 RIVERWAY, SUITE 1100  
HOUSTON, TX 77056  
 E-mail Address: MERRITT@SITHEGLOBAL.COM  
 Project Description: GEOTECHNICAL ENGINEERING, FOUNDATION DESIGN,  
GEOPHYSICS, GROUNDWATER RESOURCES



## QUESTIONNAIRE

Solicitation Number: **P08-0055**

**Materials Management  
Procurement**

8314 West Cinnabar Street  
Peoria, Arizona 85345-6560

Phone: (623) 773-7115

Fax: (623) 773-7118

Has your firm been certified by any jurisdiction in Arizona as a minority or woman owned business enterprise?    Yes \_\_\_\_\_,    No   x  .

If yes, please provide details and documentation of the certification.



## QUESTIONNAIRE

Solicitation Number: P08-0055

**Materials Management  
Procurement**  
8314 West Cinnabar Street  
Peoria, Arizona 85345-6560  
Phone: (623) 773-7115  
Fax: (623) 773-7118

Offerors are to indicate below any exceptions they have taken to the Terms & Conditions or Scope of Work:

NONE

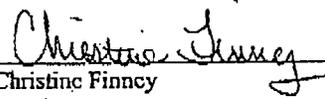
	<h3>SOLICITATION AMENDMENT</h3>	<b>Materials Management Procurement</b> 8314 West Cinnabar Avenue Peoria, Arizona 85345-6560 Telephone: (623) 773-7115 Fax: (623) 773-7118
	Solicitation No: P08-0055 Description: Materials & Geotechnical Testing Services Amendment No: One (1) Solicitation Due Date: June 4, 2008 Solicitation Due Time: 5:00 pm Arizona Time	<b>Buyer: Christine Finney, CPPB</b>

A signed copy of this Amendment shall be included with bid or received by the City of Peoria, Materials Management no later than the Solicitation Due Date and Time.

The above referenced solicitation is hereby amended as follows:

The solicitation due date is EXTENDED to June 4, 2008 at 5:00 P.M. Arizona Time.

All other provisions of this Solicitation shall remain in their entirety.

Vendor hereby acknowledges receipt and agreement with the amendment.  Signature _____ Date <u>6.6.08</u> <u>DEAN E. ALFORD, PRINCIPAL</u> Typed Name and Title <u>CONVERSE CONSULTANTS</u> Company Name <u>9831 S. 51<sup>ST</sup> ST., C-112</u> Address  <u>PHOENIX AZ 85044</u> City State Zip	The above referenced Solicitation Amendment is hereby Executed  May 28, 2008  at Peoria, Arizona   Christine Finney Buyer
---	---

	<b>SOLICITATION AMENDMENT</b>	<b>Materials Management Procurement</b> 8314 West Cinnabar Avenue Peoria, Arizona 85345-6560 Telephone: (623) 773-7115 Fax: (623) 773-7118
	Solicitation No: P08-0055 Description: Materials & Geotechnical Testing Services Amendment No: Two (2) Solicitation Due Date: June 6, 2008 Solicitation Due Time: 5:00 pm Arizona Time	

A signed copy of this Amendment shall be included with bid or received by the City of Peoria, Materials Management no later than the Solicitation Due Date and Time.

The above referenced solicitation is hereby amended as follows:

- 1.) The solicitation due date is EXTENDED to June 6, 2008 at 5:00 P.M. Arizona Time.
- 2.) On the Price Sheet, Page 26, Item 029, Soil Borings has a unit of "lineal feet." This should be "each".
- 3.) On the Scope of Work, Page 22, ADD the following, Section VIII:

**VIII. CANCELLATION/DOWNTIME/DELAYS**

**A. Cancellation**

The City reserves the right to cancel any test up to two (2) hours prior to the scheduled start of the test. Notification of cancellation will come from the City, not the Contractor on the project.

**B. Downtime**

The Consultant shall submit a fee for "Unscheduled and/or Unforeseen Cancellations/Delays" in the Fee Section of this RFP. This line item is for reimbursement, up to a maximum of two (2) hours, for tests canceled without the Consultant having been notified by the two (2) hours minimum, as specified above. The fee quoted shall include as mileage and any other related cost.

**C. Delays**

If the Consultant, upon arrival to the site, finds the site not ready for testing to be performed, a one-half (1/2) hour maximum wait will be allowed before rescheduling of the test. Reimbursement for this delay will at the rate quoted for "Unscheduled and/or Unforeseen Cancellations/Delays" in the Fee Section of this RFP and shall include gas mileage and any other related cost.

All other provisions of this Solicitation shall remain in their entirety.

Vendor hereby acknowledges receipt and agreement with the amendment.

DEAN E. ALFORD      06-06-08  
 Signature                      Date

DEAN E. ALFORD, PRINCIPAL  
 Typed Name and Title

CONVERSE CONSULTANTS  
 Company Name

9831 S. 51<sup>ST</sup> ST., C-112  
 Address

PHOENIX      AZ      85044  
 City                      State                      Zip

The above referenced Solicitation Amendment is hereby Executed

May 30, 2008

at Peoria, Arizona

Christine Finney  
 Christine Finney  
 Buyer

	<b>SOLICITATION AMENDMENT</b>	<b>Materials Management Procurement</b> 8314 West Cinnabar Avenue Peoria, Arizona 85345-6560 Telephone: (623) 773-7115 Fax: (623) 773-7118
	Solicitation No: P08-0055 Description: Materials & Geotechnical Testing Services Amendment No: Two (2) <b>Solicitation Due Date: June 6, 2008</b> Solicitation Due Time: 5:00 pm Arizona Time	

4.) The following Questions were received and the City's Answers are provided for clarification purposes:

**Q1:** On the Price Sheet, Page 26, Items 030 and 031 have units of "sites". Can you clarify what this means?

**A1:** For Items 030 and 031 the "Site" is defined as the location of each proposed project.

**Q2:** The RFP requests the unit prices on the Price Sheet be all inclusive including traffic control, mileage and the furnishing of the required reports. Including the cost of travel time and mileage per test could result in higher cost per test, especially if there are multiple tests per trip. In addition, mobilization is a considerable cost for drill rigs.

**A2:** Page 23, Item II-C requests that the firm provide a supplemental price sheet for items not specifically listed on the Price Sheet Items 1-34. Firms may include a separate line item on their supplemental price sheet for the travel or trip charge and traffic control. Similarly, add an additional line on the supplemental price sheet for any additional equipment which you will require additional compensation with the cost and unit of pay options.

**Q3:** Including the cost for traffic control is not necessary on most tests as they are performed during construction where traffic control would already be covered by the contractor.

**A3:** See A2 regarding traffic control. It is recommended to separate costs for traffic control on the supplemental price sheet should it ever be required.

**Q4:** Several of the tests listed on the Price Sheet are lab tests. For several of these tests, the Price Sheet only refers to ASTM standards for the laboratory procedures and does not refer to the ASTM standard for obtaining the samples in the field. Do you want the costs for field sampling to be included in each of these laboratory tests?

**A4:** Lab Tests shall be performed at the testing Contractor's permanent or mobile lab facility, using the proper ASTM, AASHTO, ADOT, or other approved and recognized test procedures requested by the City of Peoria. Payment made under each of these bid items shall be compensation in full for the time, materials and equipment used by the technician in the performance of the test procedures, in sample preparation, report preparation, report delivery and invoicing.

All other testing service requirements of the City of Peoria, which are not bid herein as unit cost items, shall be bid separately as the need arises. They may include, but not be limited to:

- Hourly laboratory work not covered by a unit cost bid item in this contract.
- Technical and professional consulting services.
- Investigations.





June 6, 2008

Ms. Christine Finney  
Buyer  
City of Peoria  
Materials Management  
8314 West Cinnabar  
Peoria, Arizona 85345

Dear Ms. Finney,

**Re: RFP# P08-0055, Material & Geotechnical Testing Services**

Choosing the right geotechnical and materials testing engineering consultant is vital to the success of the City of Peoria and Converse Consultants will work diligently to earn your business. We offer an experienced staff that will be available and readily responsive to your needs.

Since 1946, Converse has led the industry in geotechnical engineering. Today, our experienced and dedicated hands-on professional team continues to use advanced technologies and infrastructure development to provide quality, innovative solutions for each of our core services: geotechnical engineering, materials testing and inspection, environmental management and water resources.

As a measure of our achievements and successful operation during the past 60 years, Converse is honored to have among its clients many of the nation's distinguished local government agencies, architects, engineers, developers, and contractors.

We very much look forward to having the opportunity to deliver value-added services for City of Peoria and include you in our respected circle of satisfied clients.

**Converse Consultants will serve the City of Peoria in the following ways:**

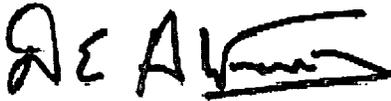
- **Cost Effectiveness** - Our emphasis is upon applied science rather than academic research. *CONVERSE* offers practical, results-oriented solutions to real-world problems, with a net result of lower overall cost.
- **Background** - Key personnel with strong construction engineering backgrounds give us a good understanding of transportation challenges. This allows for more efficient problem resolution and project management, and saves time and money.
- **Broad Capabilities** - Members of the *CONVERSE* team have essential training and experience for dealing with geotechnical investigations, materials testing, construction management, environmental engineering, water and air permitting, and many other technical issues. Our clients benefit from our experience and expertise, and appreciate NOT paying for inefficient efforts of poorly-trained personnel.
- **Established Reputation** - *CONVERSE* has been providing high-quality consulting services for over 50 years. We have been successful because we emphasize long term relationships and client satisfaction. We do this by performing work on-time, within budget, and with a minimum of client hassle.

- **Converse Collaborator** -- With this web-based service, *CONVERSE* can work in real-time, and supply decision making results to the City more effectively and efficiently while assisting the City with completing technical decisions in a sound manner. Field data can also be submitted electronically from the project site and can be available to appropriate City project managers on a 24/7 basis.
- **GIS** -- *Converse* has developed broad GIS capabilities, working from ESRI's ArcInfo and ArcView platforms. Each office is linked via internet servers over fiber optic cables, allowing continuous access to company databases, rapid response to client needs, and consistent presentation of technical data.

Thank you for the opportunity to participate in the submittal process for Material & Geotechnical Testing Services. *Converse* is committed to meeting the City of Peoria quality and schedule expectations with the personnel presented in our SOQ. I will be your single point of contact.

Respectfully,

**CONVERSE CONSULTANTS**



Dean E. Alford, C.E.M.  
Principal Scientist  
Managing Officer  
Four Corners Region

**Converse** is an Engineering News Record (ENR) Top 500 Design Firm, and was named the Best Up And Coming Firm on ENR's Top 500. As a leader in the environmental services and geotechnical engineering field for over 60 years, *Converse* has been a constant on the list. In 2004 *Converse* was 249<sup>th</sup>. According to *The Zweig Letter Hot Firms 2005 List*, *Converse* is among the "100 Fastest-Growing U.S. A/E/P & Environmental Consulting firms." *Converse* ranked 84<sup>th</sup> overall.





**City of Peoria**  
**Materials Management Procurement**  
8314 West Cinnabar Avenue  
Peoria, AZ 85345



**Request for Proposal No. P08-0055**  
**Material & Geotechnical Testing Services**

June 6, 2008



*60th Anniversary*  
**1946 - 2006**

Over Sixty Years of Commitment and Dedication  
To Public Works Agencies

**Converse Consultants**  
**Four Corners Region**

**Geotechnical Engineering, Environmental and Groundwater Sciences, Inspection and Testing Services**

9831 South 51<sup>st</sup> Street, Suite C112, Phoenix, Arizona 85044  
Telephone: (480) 296-0266 ♦ Facsimile: (480) 296-0277 ♦ email: [phoenix@converseconsultants.com](mailto:phoenix@converseconsultants.com)  
[www.converseconsultants.com](http://www.converseconsultants.com)

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**REQUEST FOR PROPOSAL No. P08-0055**  
**MATERIAL & GEOTECHNICAL TESTING SERVICES**

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## Introduction

*CONVERSE CONSULTANTS* is a comprehensive, full-service geotechnical engineering, materials testing and inspection, and environmental sciences consulting firm that has been providing professional consulting engineering services throughout the Western United States for more than 60 years. *CONVERSE* was originally established in 1946 and has continuously expanded since that time to include 12 offices nationally with more than 350 employees.

Our professional staff of engineers, geologists, certified technicians and support personnel are well trained and experienced in structural, geotechnical and geologic conditions, contractor capabilities, and Arizona agency requirements. Geophysical capabilities include ground penetrating radar, seismic refraction, field resistivity and gravimetric potential.

*Converse* opened a full-service office in Phoenix, Arizona in 2006, which works closely together with our Nevada and California offices on many municipal, transportation and infrastructure projects. Resources include a fully equipped and certified laboratory, a trained and certified staff of engineers, geologists, technicians, inspectors, drillers and support personnel.

### A. Project Understanding & Approach

#### *Plan & Method of Approach to Accomplish the Scope of Work*

*Converse* understands that various tasks may be required for this project, including conducting subsurface investigations for the design of various City of Peoria capital improvement projects which may include street construction and maintenance, storm drain, water, wastewater vertical facility construction and park improvement projects. Services under this RFQ will include on-call material testing and geotechnical services, as well as, providing all necessary personnel, materials and equipment to perform sampling, testing, drilling and documentation for various City projects. Specific projects and detailed scopes will be determined as the need for these arise during the course of the year.

#### *Familiarity with the City of Peoria*

*Converse* has met with City personnel on several occasions prior to the issuance of this RFQ to understand the needs, concerns and processes of the City of Peoria and has further reviewed the City's CIP. City staff have indicated that important upcoming projects include drainage improvements for the Butler Storm Drain, street and drainage improvements for Pinnacle Peak from 87<sup>th</sup> Ave. to Aqua Fria, various street improvement projects, right of way acquisition, mill and overlay projects and street repairs throughout the City, parking at the Pinnacle Peak Safety facility, plus a variety of parks, trails and utilities expansions and improvements. As evidenced in this submittal, *Converse* has considerable experience in performing similar tasks for various municipalities.

#### *Communication*

The *Converse* approach to each City project will include direct communication with City staff regarding planned scope of work, schedule, cost, and project details prior to initiation of any project activities. Upon agreement of scope, cost and schedule with the City, *Converse* will initiate project specific activities including coordination of project elements with City staff, involved City departments and outside entities including ADOT, Maricopa County or private property owners, as appropriate. A project schedule,



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developed during the scope and cost phase of the work, will be kept up- to-date and change immediately communicated to pertinent City staff.

### ***Converse Collaborator***

To assist the process, *Converse* will utilize our proprietary web based software, *Converse Collaborator* to share project data with approved parties involved in the project. Field data, maps, scopes of work, invoices, laboratory results and related documents can be instantly uploaded and made available to all involved in the work. By working in real-time, *Converse* can supply decision making results to the City more effectively and efficiently while assisting the City with completing technical decisions in a sound manner. Field data will also be submitted electronically from the project site and will be available to appropriate City project managers on a 24/7 basis. This will provide immediacy and ensure the information is reaching the correct City personnel.

### ***Quality Assurance***

To reinforce our commitment to quality, *Converse* has established and implemented a company-wide quality assurance program. The function of the program is to define quality objectives and procedures that will assist the staff in complying with company policy. This program supplements the traditional and continuing role of the project principal who carries the primary responsibility for quality assurance on individual client assignments.

The objectives are to put management safeguards into place. These safeguards protect the company image, ensure consistency, and by reflection, the professional reputation of the staff. The program is applied to every critical area of *Converse* staff activity and specifically covers such things as:

- Assurance of *Converse* commitment to quality, integrity, and propriety dealing with our clients.
- Efficient allocation of staff and material resources.
- Identification, anticipation and avoidance of potential problems.
- Corrective actions.
- Credibility and credentials of personnel.
- In-house Staff Training.
- Liaison with clients for overall quality assurance policies and practices.
- Establishment and overview of quality assurance policies and procedures for all *Converse* project activities.

Quality Assurance is the primary responsibility of the project principal. None of the above items supersede this responsibility, nor does it lessen the responsibilities of the technical staff members to perform quality work, and maintain compliance with the standards required by professional ethics.

### ***Project Specific Quality Assurance/Quality Control***

An important part of any effective multi-disciplinary technical and field program is a definitive, project-specific quality assurance program. The nature of most on-site geotechnical and environmental sampling and laboratory work makes quality assurance of collected data critical. This requires development and maintenance of a comprehensive and well-documented Project QA/QC Plan.



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Project-specific QA/QC Plans developed for *Converse* geotechnical work will have many if not all of the following elements:

- Project Description
- Project Organization and Responsibilities
- Objectives for Data Collection/Measurement
- Sampling Procedures and Chain-of-Custody
- Calibration Procedures and Frequency
- Analytical Procedures
- Data Validation and Reporting
- Internal Quality Control Checks
- Procedures used to Assess Data Precision and Completeness
- Corrective Action

Additional project-specific quality control elements are added as required by the individual project. This QA/QC Plan, after corporate review and acceptance, becomes the working document for project quality control and maintenance and is integrated with the site-specific health and safety plan requirements.

### ***Understanding the Scope of Work***

The City of Peoria is scheduled to construct several capital improvement projects over the coming years, including but not limited to: street construction, street maintenance, storm drain, water, wastewater, vertical facility construction and park improvement projects, and has a need for on-call material testing and geotechnical services. These services may include but are not limited to providing personnel, materials and equipment to conduct sampling, testing, drilling and documentation for various projects. Specific projects and detailed scopes will be determined as the need for these arise during the course of the year.

### ***Permitting and Clearances***

*Converse* understands that rights-of-way and site entry clearances will be provided by the City, unless otherwise indicated. Permits required by ADWR and/or ADEQ will be obtained by *Converse*. Proper abandonment of exploration boreholes will be implemented, including grouting, as necessary. Exploration plans will be prepared to meet ADEQ and ADWR criteria, prior to initiation of exploration elements of the project.

### ***Geologic Services***

Geologic services may be required to investigate geologic hazards or conditions for new or existing projects. Geologic mapping would be one typical task. The purpose of mapping and evaluation of hazards is to determine potential impacts on planned new or existing municipal facilities. Features that may be evaluated during geologic mapping would include subsidence and fissures, compaction faults, seismic faults and stratigraphy of rock masses.

### ***Geotechnical Exploration***

Typically, test borings with rotary or auger drill rigs are used to characterize the subsurface profile; however, backhoe test pits may also be used. Sampling is conducted by using standard penetration samplers, pitcher tube samplers, Shelby tubes, or by obtaining bulk samples. Logging of the test borings is conducted by a qualified engineer or geologist. Cone penetration testing may be conducted. All work



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is performed in accordance with ADOT and AASHTO specifications and standards. *Converse* has relationships with several drilling contractors throughout Arizona to facilitate geographic location, site specific conditions and to optimize subsurface exploration schedules and budgets.

### ***Geophysical Exploration***

Geophysical exploration methods may be used to evaluate the in-place properties of the soil or rock. Seismic refraction is used to determine depth to rock or seismic velocities that can be correlated with rippability. Down-hole geophysical methods can be used to determine in-place moisture contents, densities, or other information. Gravimetric surveys can be used to map subsurface openings or features. Refraction Microtremor (ReMi) Survey can be performed at a City of Peoria site to provide information in accordance with the 2000 IBC for classification of the subsurface profile in regards to seismic design.

### ***Laboratory Testing***

Typically, laboratory testing will be conducted on soil or rock samples obtained in the field. Strength characteristics are determined by the direct shear, unconfined compression or triaxial shear tests. Subgrade support properties are determined by the R-value test. Physical properties tests include moisture content, gradation, Atterberg limits and density. The consolidation test is conducted to determine compressibility. Miller box resistivity and chemical analysis can be conducted to evaluate corrosion potential. The permeability test is run in the laboratory to determine flow characteristics of the rock or soil. Where applicable, all laboratory tests are run in accordance with ADOT, AASHTO, ASTM or other required standards.

*Converse* laboratory testing will be conducted in accordance with qualifications contained in the latest editions of the appropriate publications of the American Society for Testing and Materials (ASTM), The American Association of State Highway and Transportation Officials (AASHTO) and the American Concrete Institute (ACI) Manual of Concrete Practice. The *Converse* laboratory conforms to ASTM practice E-329. *Converse* will verify its independence from the construction contractor and subcontractor, if any, whose work is being tested.

In addition to the above, *Converse* will provide as needed **Batch Plant Evaluations**. These evaluations shall be performed as described below and only when specifically required and as directed by the City's Project Manager. **Asphalt Batch Plant Evaluation** will conform to ASTM D-290 (Bituminous Mixing Plant Inspection) and shall be the basis for determining if the batch plant is capable of producing and is producing the required Job Mix Asphalt. **Concrete Batch Plant Evaluation** will conform to ASTM C-94 (Ready Mixed Concrete) and shall be the basis for determining if the batch plant is capable of producing and is producing the required Job Mix Concrete.



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A partial listing of our laboratory testing capabilities include:

- Unit Weight and Moisture Content
- Grain Size Analysis
- Atterberg Limits
- pH
- Sulfate Content
- Chemical Heave
- Gypsum Solubility
- Soil Resistivity
- Sodium Sulfate Soundness
- Sand Equivalent
- Organic Impurities
- Moisture-Density Relation
- Maximum and Minimum Relative Density
- Consolidation Tests
- Swell Tests
- Direct Shear Tests
- Unconfined Compression Tests
- Asphaltic Concrete Mix Designs
- Hveem and Marshall Methods
- Asphaltic Concrete, Extraction,
- Gradation, etc.
- Portland Cement Concrete Mix Designs
- R-Value and CBR Tests
- Measured Maximum Specific Gravity of Bituminous Paving Mixtures
- Specific Gravities of Soils and Aggregates
- Asphalt Extraction (Reflex and Centrifuge)

### ***Geotechnical Analysis and Reports***

After the subsurface profile and materials characteristics have been determined, an analysis is conducted and recommendations are provided for design or construction. Design methods are in accordance with the policies and procedures of the City, MAG, and/or ADOT, or other recognized design standards as applicable to a specific project. Design calculations are submitted to the City for review if required.

A geotechnical report will be prepared for the project which will present our understanding of the project, a scope of services, field and laboratory testing that was conducted and the results, a discussion of subsurface conditions, recommendations for design or construction, a site plan, and logs of the explorations. The report will be specific to the project and may present recommendations or design requirements for cut and fill slope stability; earthwork suitability; shrink and swell characteristics; structure foundation type; allowable loading and estimated settlement; lateral active, at rest, and passive earth pressures; liquefaction potential and mitigation methods; seismic fault mitigation procedures; groundwater control recommendations; expected construction difficulties; corrosion control methods; seismic design parameters; pavement section alternates; hazard mitigation procedures; and other geotechnical-related requirements.

All geotechnical reports are prepared in draft form and will be submitted to the City of Peoria for review and comments. All review comments are incorporated into the final report, which is signed and stamped by an Arizona registered professional engineer.

### ***Subcontractors***

*Converse* will subcontract drilling services, traffic control and analytical labs. *Converse* works with several such contractors statewide. Specific drillers used will be determined on a project by project basis, weighing several factors, including project location, timing and schedule, specific drilling needs (e.g. hollow stem vs. air rotary, rock coring, etc.), logistics, and access (e.g. track or truck mounted equipment).

In addition, other subcontractors may be required for specific projects, and may include earth moving contractors for site access and drill pad set up, barricade and safety barrier suppliers, flaggers,



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surveyors, or aerial photography. In the event that such firms might be required for a specific project, *Converse* will consult the City in discussion regarding best fit, scope and cost of services. *Converse* employs a subcontractor qualifying process and will work with subcontractors early in the process to develop mutually understood and accepted goals and objectives. Throughout the project, *Converse* will listen and respond to all the needs and requirements of all team members and establish solutions to any challenges.

### ***Creative Problem Solving***

The safe and economical earth structure design, support of structures and facilities depends on an understanding of soil and rock behavior and, accordingly, properly designed and built foundations and dams. *Converse* professionals are specifically trained in soil mechanics and foundation engineering, enabling us to provide foundation design recommendations, lateral pressure analysis, construction monitoring, ground improvement design, and slope stability analyses.

*Converse* has considerable expertise in dealing with the unique desert soil conditions present in Arizona. Difficult soil conditions present in this area include chemical heave due to the presence of salts in the soil, gypsum (which is soluble in water), hydrocollapsible soils, expansive soils, and caliche. Chemical heave can occur when salts pass from vapor to crystalline phases and occupy more volume. *Converse* has developed methods of identifying these difficult conditions and providing solutions for geotechnical design that can be utilized in our work for the City of Peoria.

Partnering this expertise with a clear, concise plan and approach to each project, *Converse* can mitigate challenges and concerns early in the project. If technical or logistical issues should arise, *Converse* will take responsibility and proactively problem solve with the City of Peoria utilizing efficient and effective communications and documentation.

### ***Anticipated City of Peoria Involvement***

*Converse* anticipates that the City will be involved at some level in all stages of any given project. The success of a project will hinge on solid communication between *Converse* project managers and designated City staff, from project concept through final invoice submittal. *Converse* commits to keeping City personnel fully informed throughout a given project. Utilizing *Converse Collaborator*, *Converse* will ensure immediate communication and 24/7 availability.

The first critical step in any project is an agreement on the scope of services requested, the time frame in which those services will be provided, and the cost for which the services will be completed. A project kick-off meeting will further define time critical elements, assist project designers with understanding of critical City issues, such as utility locations, traffic control issues, requirement for night work, dust control or related items, any of which could delay a project if not considered initially.



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## B. Experience

### *Project Experience*

Since 1946 Converse has lead the industry in geotechnical engineering. Today, Converse's experienced and dedicated hands-on professional team continues to use advanced technologies and infrastructure development to provide quality innovative solutions for each of our services: geotechnical engineering, materials testing and inspection, environmental, water resources, and occupational health and safety. As a measure of our achievements and successful operation during the past 60 years, Converse is honored to have among its clients many of the nation's distinguished local government agencies, architects, engineers, developers, and contractors. We very much hope to be able to include work for the City of Peoria as one of our clients we have the honor to serve.

- **Waveyard Adventure Super Park, Mesa, Arizona** -- *Converse* provided the geotechnical engineering services for the Waveyard Resort Project. The completed development will include a wake boarding/surfing component, two adult swimming pools/lagoons/scuba, an indoor water park, two giant slides, two plunge pools and a zip-line experience. Our field investigation included drilling 14 exploratory soil borings between four to 50 feet below ground surface to evaluate subsurface soil properties. A Refraction Microtremor (ReMi) Survey was performed at the site to provide information in accordance with the 2000 IBC for classification of the subsurface profile in regards to seismic design. Foundation systems will include spread footings or drilled shafts. Contact: Mr. Jeffrey Gustin, (480) 563 8881.
- **Arizona Metro Mix, Queen Creek and Glendale, Arizona** – Since 2006, *Converse* has provided Batch Plant Evaluations, mix designs and QA/QC for concrete and aggregates at both the Glendale and Queen Creek batch plants. Specific tasks have included sampling and laboratory evaluation of aggregate suitability; evaluation and performance of additives and admixtures; sampling of concrete as it is batched; and at specific project sites evaluating field parameters, cast cylinders and conducting laboratory testing for strength. Tests generally conformed to ASTM C-31 (Making and Curing Concrete Test Specimens in the Field) and ASTM C-39 (Compressive Strength of Cylindrical Concrete Specimens). Samples were obtained following ASTM C-172 (Sampling Fresh Concrete). Concrete Compression Tests were generally composed of a set of four (4) concrete test specimens made in conformity with ASTM C-31 (Making and Curing Concrete Test Specimens in the Field). Contact Mr. Bob Matthews, (480) 882-9984.
- **Custom Home Inspections, Ellison & Grenier Engineering, LLC, Phoenix and Scottsdale, Arizona** – *Converse* has provided materials testing and special inspections for several unique custom luxury homes in north Phoenix and Scottsdale, Arizona, including a 13,000 square foot mountainside residence, and a 11,000 square foot terraced custom home. For each project, *Converse* special inspectors, technicians and soils engineers evaluated and tested soils for proper compaction, removal of low-quality soils, grout, mortar and concrete testing and inspection, steel, welding, bolt and epoxy inspection and testing. Contact Mr. Arnold Ellison, PE, (480) 831-1170.
- **Desert Rock Energy Project, Geotechnical Engineering, Water Resources Development, Environmental Permitting, Navajo Nation** – Sithe Global/Desert Rock Energy, LLC – *Converse* recently completed design level geotechnical engineering services for a 1,500 MW coal fired power plant on the Navajo Nation. Work include drilling and testing over 80 soils borings up to 150 feet



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deep, evaluating clay, high sulfate and hydrocollapsible soils, and designing high load foundations including mat and spread footings, and drilled shafts. *Converse* is also providing groundwater services by designing and overseeing drilling of a 5,800 ft deep test wells. Additional services include environmental planning documents, SWPPP programs, and long term groundwater monitoring. Contact Mr. Kelly Merritt, (713) 499-1129.

- ***Colorado River Bridge, Hoover Dam Bypass, Colorado River, Arizona and Nevada*** -- the Hoover Dam Bypass project is clearly one of the most amazing and challenging project of our time, both from an engineering and a construction standpoint. For decades, the project has been conceptualized as a means of relieving serious traffic congestion on U.S. 93, which currently runs over the crest of the historic Hoover Dam. Construction of the Hoover Dam Bypass Project began in 2003. Due to the magnitude of the project, it is being constructed in four distinct phases: the Arizona Approach, the Nevada Approach, the Colorado River Bridge and the final roadway surfacing of over one million cubic yards of embankment, six concrete bridge structures and 17 miles of asphalt concrete pavement. The *Converse* scope of work included observation and placement of compacted fill and conduct field density tests; observe and test batch plant inspection during placement of fresh concrete; fabrication of concrete cylinders; observe and test during asphalt concrete placement; laboratory tests of soils, asphalt and concrete; prepare reports to certify that the project was completed in accordance with the plans and specifications; provide as needed consultation. Contact Ms. Barbara Quintana, Federal Highway Administration (702)294-1087.
- ***Virgin River Bridge (B-85) Replacement, SR 170 at Riverside, Clark County, Nevada*** *Converse* conducted a geotechnical investigation for the Virgin River Bridge (B-85) Replacement project located on State Route 170 at Riverside in Clark County, Nevada. The project is located about 10 miles west of Mesquite, Nevada, at the southwestern crossing of the Virgin River at Riverside. The project consists of designing and constructing a five-span replacement bridge, ranging from 155 to 190 feet long, with a total bridge length of approximately 880 feet between abutments, and a width of 39 feet, parallel and slightly downstream of the existing bridge. Project will include approximately 4,000 feet of new roadway and realigning about 2,000 feet of roadway on each end of the bridge slightly to the west, as well as retaining walls at the abutments. *Contact – Mr. Parvis Noori, Nevada Department of Transportation, (702) 888-7786.*
- ***I-215/I-515 Henderson Interchange, Henderson, Nevada*** -- *Converse* conducted preliminary and design level geotechnical investigations including: field drilling and sampling, laboratory testing, engineering analysis, report preparation for 2.5 miles of freeway, a full diamond interchange at Gibson Road and I-215, and a system interchange at the junction of I-215, I-515, and Lake Mead Drive. The \$95,000,000 project included eight new bridges, the widening of three existing bridges, 13 MSE and cantilever retaining walls, two soil-nail retaining walls and one tie-back retaining wall beneath existing bridges, and several open channel and box culvert drainage structures. Engineering analysis included axial drilled shaft capacity analysis, assessing ultimate and allowable bearing capacity for spread footings on the native and proposed fill soils, estimating settlement of spread footings, slope stability analysis, external stability analysis of MSE retaining walls, and geotechnical recommendations for lateral drilled shaft analysis and the design of retaining walls and drainage structures. *Reference: Mr. Scott Rawlins, Nevada Department of Transportation, 775-888-7592.*
- ***I-515 Sound Barrier Wall, Las Vegas, Nevada*** -- *Converse* conducted a geotechnical investigation for a proposed sound barrier wall located along the I-515 from Las Vegas Boulevard to Sahara Avenue in



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Las Vegas, Nevada. The project will consist of the construction of a sound barrier wall along the highway and on/off ramps. The proposed barrier will rise 12 to 16 feet above the road grade and consist of pre-cast panels and posts founded on a series of Cast In Drilled Hole (CIDH) piles (Drilled Shafts), and a cast-in-place concrete panel system anchored to existing bridge and barrier structures. Column loads are anticipated to be 40 kips (20 ton). *Reference: Mr. Parvis Noori, Nevada Department of Transportation, (702) 888-7786.*

- **Jones Boulevard Improvements, Las Vegas, Nevada** -- Converse is conducting a geotechnical investigation for Jones Boulevard, from Elkhorn Road to Horse Drive and Grand Teton Drive from Jones Boulevard to Maverick Street, in Las Vegas, Nevada. The estimated \$4 million project consists of approximately 1.75 miles of pavement rehabilitation or replacement, including earthwork, soil stabilization using geo-grid, aggregate base, bituminous pavement, reinforced concrete pipe traffic signals and street lighting. The new pavement section will be designed to conform with projected traffic volume information. The pipeline inverts are anticipated to range from about 10 to 20 feet below grade. *Contact – Ms. Della Mosier, Carter & Burgess, 702-938-5454.*
- **Harmon Avenue Grade Separation, Las Vegas, Nevada** -- Converse conducted a geotechnical investigation for a grade separation over the Union Pacific Railroad (UPRR) tracks so that traffic can cross the UPRR relatively unimpeded in both the north-south and east-west directions. Currently, both Harmon Avenue and Valley View Boulevard dead end at the UPRR tracks, which run at a diagonal, roughly northeast to southwest. The grade separation will include three bridges and numerous MSE walls. Drainage structures will also be included as part of this project. The project will include new pavement on Harmon Avenue (about 400 feet east of Polaris Avenue), and Valley View Boulevard to Tropicana Road. Existing pavements on Harmon Avenue and Valley View Boulevard will be overlaid or replaced, depending in part on the pavement condition and the drainage and geometric design requirements of the street. The new pavement section recommendations were designed using projected traffic volume information. *Contact – Mr. Tim McCoy, P.E., G.C. Wallace, 702-804-2000.*
- **Ann Road, U.S. 95, Rancho Drive Overpass and Interchange, Las Vegas, Nevada** -- A geotechnical investigation was performed for the Ann Road Overpass structure over Highway 95 and interchange structures at U.S. 95 and Rancho Road. The structure at Ann Road is a two span concrete structure, while a steel fly-over structure was constructed at Rancho Drive and U.S. 95. Investigations also included design of pavement sections for about 0.5 miles. A borrow source investigation was conducted to locate a suitable borrow source for import to the site. *Contact – Mr. Jesse Galvan, Nevada Department of Transportation, (702) 888-7490.*
- **NDOT Bike Path Bridge, Desert Inn Road and US 95, Clark County, Nevada** -- A geotechnical investigation was performed for the NDOT Bike Path Bridge over Desert Inn Road. The Bike Path paralleled U.S. 95. The bridge was single span, 164 feet in length, founded on drilled shafts. Widening of the overpass approach embankment was also included. Recommendations for design of the drilled shafts and constructing the embankment were provided, including protection of the existing bridge foundations. *Contact Mr. Parvis Noori, Nevada Department of Transportation, (702) 888-7786.*
- **I-215/I-515 Interchange Load Tests, Henderson, Nevada** -- This project consisted of full-scale axial load testing of drilled shaft foundations for the I-215/I-515 Interchange Project in Henderson, Nevada. The drilled shafts load tests were performed using the Osterberg Load Cell method on a 5-



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foot diameter drilled shaft in clay soils and on a 6-foot diameter drilled shaft in granular soils. *Converse* coordinated the installation and testing of the drilled shaft foundations including selecting test locations; performing field drilling, sampling and laboratory testing of soils prior to construction; and providing construction observation, inspection, and material testing services during construction. After the tests were performed, *Converse* analyzed the results of the tests to develop methods for assessing axial drilled shaft foundation capacities for design of drilled shafts for the project. Our scope of work included: coordinate the installation and testing of the drilled shaft; foundation including selecting test location; perform field investigation and soil sampling; conduct laboratory tests to obtain physical and engineering characteristics of the site soils; observe and test during full-scale load; develop method to assess production shafts axial capacity; observe installation during drilling shafts installation; provide as-needed consultation; prepare report to indicate that the foundation was installed in accordance with the project plan and specifications. Contact Mr. John Clark, Parsons Brinckerhoff Quade & Douglas, Inc. (702) 697-8118.

- **State Highway 79 Improvements, Riverside, California** - The project consisted of improvements of State Highway 79 between Gilman Springs Road in the San Jacinto Valley to First Street in the City of Beaumont, Riverside County, California. The project involved approximately six miles of widening and realignment of the highway. The improvements included two 12-foot wide lanes northbound, two 12-foot wide lanes southbound and an eight-foot wide shoulder on either side of the road, as well as numerous cut slopes and embankment fills up to 240 feet and 40 feet high, respectively. Our scope of services included a review of existing information; aerial photograph analysis; geologic mapping; drilling 23 hollow-stem borings to depths ranging from 15 to 81 feet deep; six rock core borings drilled to depths ranging from 44 to 151 feet deep; excavated 14 test pits; project issues were high steep slopes (less than 2:1); hard rock; rock fall mitigation and erosion control; performed extensive studies and analysis to develop technically sound and economically viable recommendations; provided as-needed consulting services during construction. Contact: *Mr. Karl Sauer, Riverside County Transportation Commission (909) 787-7976.*

### ***Anticipated Key Staff***

***All projects will be managed from Converse's Phoenix Office. Dean Alford, CEM***, principal scientist and managing officer is the direct single point of contact for the City of Peoria. ***Senior Geotechnical Engineer Jim Rose, P.E.*** will manage the day-to-day geotechnical efforts while ***Project Manager Jose Ojeda*** will oversee the construction testing and materials group. ***Jeff Baer*** is directly responsible for overseeing all laboratory tests for geotechnical projects as well as overall management of the laboratory while Senior ***Geologist Britt Callahan, RG, CEM*** will oversee geologic and geohazard aspects of City of Peoria projects. We will fully dedicate our Phoenix based staff to your projects. Key personnel are listed in the below thumbnail resume sketches. Please see the City of Peoria Project Staff Matrix and the Converse Organizational Chart for a full listing of assigned staff such as laboratory and field personnel.

Additional staff beyond those listed in this RFQ will be available to the City of Peoria, as necessary, to meet project goals and budget. We have an additional 300 personnel nationwide fully able to assist when needed. We are cost competitive with other firms in the Phoenix metropolitan area, delivering quality, on-time projects.

We bring with us a team that has been selected as a 2006 Engineering News Record (ENR) Top 500 Design Firm. ENR is the engineering industry's standard of measurement. Converse ranked 160 on the list of top US Engineering, Architectural, Planning and Environmental (A/E/P & E) firms. Converse has



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also consistently been listed as one of the nation's top firms on the ENR Top 200 Environmental Firms in 2006, on The Zweig Letter Hot Firm 2006 List, and the "Best Up And Coming Firm" on ENR's Top 500.

**Dean E. Alford, CEM**, is the managing officer for *Converse* Four Corners Region Office located in Phoenix, Arizona. Dean has nearly 20 years of geologic, geotechnical and environmental experience including field exploration, environmental site assessments, and mold and asbestos surveys. As principal-in-charge, Dean provides oversight, resource allocation and budget oversight.

**James D. Rose, PE** has over 27 years of engineering experience. Jim is responsible for a variety of projects including batch plant inspections, bridges, streets, highways, pipelines, utilities, flood control facilities, as well as, commercial, industrial and residential developments. Primary responsibilities are technical oversight, field/lab investigations and quality assurance/quality control.

**Jose Ojeda** has been in the CMT industry for over eight years and is the project manager for the construction materials testing group for the Phoenix Office. Over the last four years Jose has been a project manager for a variety of CMT and special inspections projects. His responsibilities include the review of construction site plans and specifications; consultation with clients and contractors on proper interpretations of plans and specifications; review of mix designs for concrete and asphaltic concrete, soil and aggregate testing; batch plant inspections; daily field reports; monthly billing; writing and completion of final reports; and project management of construction materials testing projects. His project experience consists of a wide variety of projects from large residential subdivisions and commercial buildings to bridges, highway, railroad and commercial facilities.

**Jeff Baer** has over 14 years experience as a laboratory and field technician and laboratory manager. As senior laboratory technician and laboratory supervisor, Jeff conducts lab tests for projects with a variety of public agencies. He is directly responsible for overseeing all laboratory tests for geotechnical projects as well as overall management of the laboratory. He is fully certified via ATTI, AASHTO and ACI, with certifications and experience exceeding NICET Level II certifications. His experience includes: batch plant inspections, concrete mix design and general laboratory testing for municipal, commercial, industrial and residential construction projects.

**Daniel Hogan** has over 17 years of experience in construction materials testing and has direct supervisory experience for all technical and operational tasks performed for assigned projects, including engineering, testing, inspection, reporting, in-house quality assurance, marketing and operational tasks such as billing, collections, personnel and planning.

**Britt Callahan, RG, CEM** has over 15 years experience in geologic, groundwater and environmental services. As a senior geologist, he will oversee geologic and geohazard aspects of projects, including management, scheduling and fiscal responsibilities. He will also be responsible for assuring that geologic issues related to City projects are met in a responsible manner, and that work efforts are fully coordinated and performed with high technical quality. Past major clients include City of Phoenix, City of Goodyear, Shell Oil Company, ADOT, Maricopa County and MCDOT. Britt will have full management, scheduling and fiscal responsibilities. He will be responsible for assuring that City needs are met in a responsible manner, and that work efforts are fully coordinated and performed with high technical quality.

**Nelsene Alford** has over 10 years of experience with concrete and soils inspection, as well as cross training in biological and environmental services, including Phase I/II ESAs, lead, asbestos, radon and



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wildlife projects, including wetlands delineations. She is a certified ACI Grade I concrete technician and certified nuclear density gage operator.

**Marilyn Moots, IH** provides project management, coordination, scheduling and client interaction for industrial hygiene services including lead, asbestos, mold, and occupational health and safety services. She specializes in environmental training and indoor air quality evaluations. OSHA and health and safety monitoring and training are areas of specialty for Marilyn.

**Merry Ellen Boom, R.S.** has over 14 years experience as a project air quality specialist. She will be responsible for client relations and technical expertise regarding air quality issues. She has extensive regulatory experience both at the state and county levels and her background encompasses many facets of environmental work. Her expertise is in dust control monitoring, permitting and training.

**James L. Werle, R.G.** is chief geologist at *Converse* with more than 25 years experience conducting geological, geophysical, & hydrogeologic studies throughout the southwest. General duties include investigative management and resolution of a wide range of geology related problems for public and private projects. He has conducted highly detailed geologic investigations for such major projects as bridges, detention dams, tunnels, reservoirs, pipelines, evaporation ponds, power plants and high-rise structures. Geophysical duties have included investigations using ground penetration radar, seismic refraction, vibration monitoring, resistivity and gravity.

**Jason M. Dixon, P.E.** is a professional engineer with over 10 years experience. Jay provides project management and technical expertise while directly overseeing engineering services. Past experience includes hydrogeologic investigations, well design, well and borehole logging, geophysics, groundwater monitoring, and data analysis.

**Vance Smith** is the vice president/regional materials manager with over 18 years experience in Construction Inspection and has been responsible for managing a staff of over 65 technical personnel. As Principal Construction Manager with *Converse*, Vance's duties include investigations for materials failures, budget management, supervision of materials testing in the field and laboratory, review of all inspections, development of concrete mix designs, final reports and direct supervision of all project managers.

**Louis H. Knight, PhD, R.G. C.HG** is a registered geologist in Arizona and a certified hydrogeologist, Lou is a chief geologist with *Converse*, and has over 35 years in the fields of geology and hydrogeology. Past projects include hydrogeologic mapping, monitoring well installation, well development, aquifer testing, hydrogeologic data analysis and contaminant migration analysis.

**Rich Pugliese** manages the *Converse* Environmental GIS, location based data management tool to assist in the decision making processes that form a geotechnical strategy for *Converse* clients. Rich also manages *Converse* Collaborator which gives clients access to documents, testing results and reports 24/7.

**Stoney L. Mather, P.E.** is a project engineer with nearly six years experience in geotechnical engineering. Stoney has been responsible for overseeing logging and field explorations. His duties include supervision of the subsurface investigation, including determination of driven and bulk sample depths; resistivity testing and pressuremeter testing; assigning the laboratory testing program; analysis of the data collected in the field and laboratory programs; determination of design parameters; and assisting in the



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preparation of the geotechnical report.

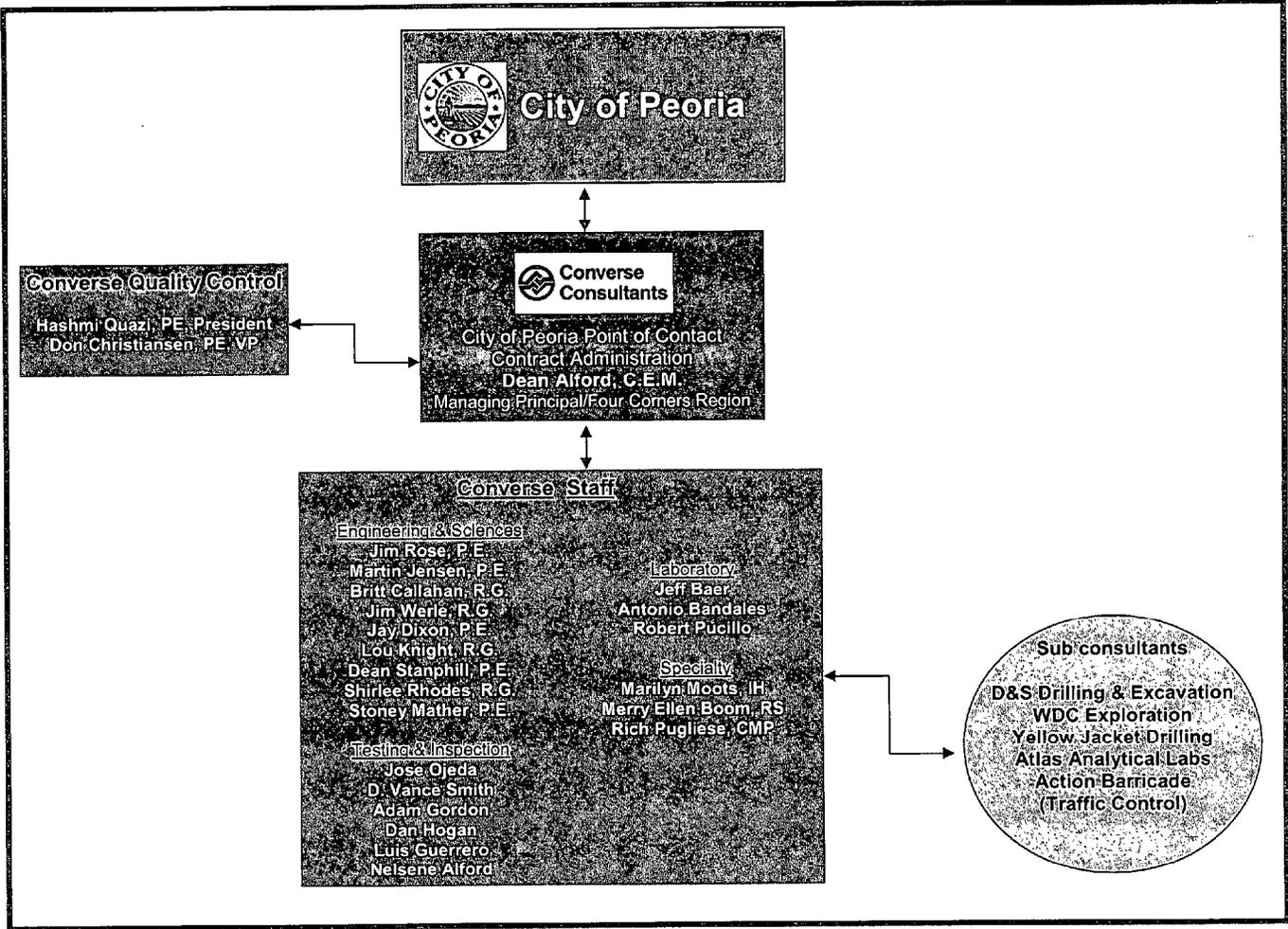
**Martin D. Jensen, P.E.** is a senior engineer with nine years experience in geotechnical engineering. Martin is responsible for a variety of geotechnical investigations. His responsibilities include determining a suitable scope of work, planning geotechnical explorations, assigning laboratory tests, overseeing field and laboratory activities, performing engineering analyses and preparing geotechnical reports.

**Dean R. Stanphill, P.E.** is a principal engineer responsible for the geotechnical and construction materials testing projects. He also provides support for a wide range of environmental, geologic and hydrogeologic studies. His duties involve the full range of field investigation, field testing, and laboratory testing and engineering analyses for large public and private projects. Dean has performed extensive investigations for major pipelines, bridges, wastewater treatment plants, stadiums, petroleum production and storage facilities, schools, hospitals, military facilities, agricultural processing plants and prisons. Dean's specific area of expertise is the area of welding of structural steel members that are coated with lead primer/paint. This includes not only visual assessments of welds, but also magnetic particles and x-ray testing.

**Hashmi S.E. Quazi, Ph.D., G.E., P.E.** provides quality control oversight and technical assistance on projects including hospitals, high and low-rise structures, warehouses, roadways, pipelines, water and wastewater treatments plants, residential development, distress investigation, and other related studies. He has performed site investigations and prepared technical reports for facilities located in areas of high liquefaction potential and difficult subsurface conditions. He has also conducted seismic evaluations for slopes, buildings, water reservoirs, deep excavations, and residential development projects. During the past 17 years, he has conducted, managed and supervised more than 350 projects ranging from high-rise to hillside development projects.

**Don J. Christiansen, P.E.** is vice president of the firm and principal engineer, and is responsible for regional geotechnical and materials testing projects. With over 25 years of experience in civil, geotechnical and materials engineering, he has been involved in a variety of geotechnical projects, including investigations for streets, highways, freeways, bridges, tunnels, pipelines, utilities, flood control facilities, commercial buildings, industrial structures, mining facilities and residential developments. Don's duties include contract management, overseeing field exploration and testing, managing project budgets, Quality Control, scoping and determining investigation programs, performing engineering analyses, report preparation, and client contact.





Converse Consultants Staff Experience and Certifications

Location	Education	Experience	Staff Level - Skill Set	Geotechnical	Field Inspection & Testing	Laboratory Testing	Special Inspections	
Phoenix, Arizona	MS	21	39	Managing Principal - Main Contact for City of Peoria	•	•	•	•
	MS	17	3	P. E. AZ #232877, Nuclear Density Gauge Operator, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1	•	•	•	•
	MS	17	2	ATI Field Technician, ACI Field Technician Level 1, Nuclear Density Gauge Operator, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1	•	•	•	•
	MS	17	2	ATI Field Technician, ACI Field Technician Level 1, Nuclear Density Gauge Operator, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1	•	•	•	•
	MS	17	1	ATI Field Technician, ACI Field Technician Level 1, Nuclear Density Gauge Operator, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1	•	•	•	•
	AA	29	5	NDE Level 1, Concrete Material, SWS Approval, Concrete, ACI Concrete Strength Test Technician, ACI Field Technician Level 1, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1	•	•	•	•
	MS	24	4	NDE Level 1, Concrete Material, SWS Approval, Concrete, ACI Concrete Strength Test Technician, ACI Field Technician Level 1, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1	•	•	•	•
	MS	29	8	NDE Level 1, Concrete Material, SWS Approval, Concrete, ACI Concrete Strength Test Technician, ACI Field Technician Level 1, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1	•	•	•	•
	MS	29	15	NDE Level 1, Concrete Material, SWS Approval, Concrete, ACI Concrete Strength Test Technician, ACI Field Technician Level 1, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1	•	•	•	•
	MS	29	4	NDE Level 1, Concrete Material, SWS Approval, Concrete, ACI Concrete Strength Test Technician, ACI Field Technician Level 1, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1	•	•	•	•
	MS	29	11	NDE Level 1, Concrete Material, SWS Approval, Concrete, ACI Concrete Strength Test Technician, ACI Field Technician Level 1, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1	•	•	•	•
	MS	29	2	NDE Level 1, Concrete Material, SWS Approval, Concrete, ACI Concrete Strength Test Technician, ACI Field Technician Level 1, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1	•	•	•	•
	MS	29	2	NDE Level 1, Concrete Material, SWS Approval, Concrete, ACI Concrete Strength Test Technician, ACI Field Technician Level 1, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1	•	•	•	•
	MS	29	1	NDE Level 1, Concrete Material, SWS Approval, Concrete, ACI Concrete Strength Test Technician, ACI Field Technician Level 1, NDE Level 1, Field Technician, ACI Concrete Strength Test Technician, ACI Field Technician Level 1	•	•	•	•
	Southern Nevada	MS	23	23	Engineering Geology, Soils, Foundations	•	•	•
MS		23	8	Principal Engineer	•	•	•	•
AA		18	7	VP - Regional Construction Manager - Coreslabs & Asphalt Mill Cellings	•	•	•	•
PH.D		20	20	Engineering Geology, Soils, Foundations	•	•	•	•
MS		20	8	CIS Specialist/Converse Collaborator Management	•	•	•	•
MS		23	8	Geotechnical Engineer	•	•	•	•
MS		23	8	Geotechnical Engineer	•	•	•	•
MS		23	8	Civil Engineer	•	•	•	•

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### ***Overall Firm and Staff Projected Workload***

*Converse* currently has staff capacity to handle most typical municipal projects envisioned under the on-call services contract. As workload expands, a combination of 'borrowing' staff from other *Converse* offices and addition of new staff with appropriate experience will be utilized to accommodate project needs. *Converse* also retains a number of part time professionals to further accommodate short-term staffing requirements. The staff listed in this SOQ will service the City of Peoria

### ***Location of Office Performing the Services***

It is anticipated that all project work will be provided from the *Converse* Phoenix office, utilizing Maricopa County based project staff. Anticipated drilling subcontractors will be based in the Phoenix Metro Area, and will be selected on a project specific basis, taking proximity to City project locations, cost, availability and appropriateness of equipment into consideration.

The Arizona office location is:

Converse Consultants  
Four Corners Region  
9831 S. 51<sup>st</sup> Street, Suite C-112  
Phoenix, AZ 85044  
Ph: (480) 296-0266 Fax: (480) 296-0277

## **C. Cost/Fee Proposal**

### ***Price Sheets & Supplemental Rate Sheets***

*Converse* has developed specific rates for the City of Peoria. Please review the price and supplemental rate sheets provided in the appendix of this document.

## **D. References From Similar Projects**

*Converse* has completed the questionnaire on Page 27 of the RFQ, which is included in the appendix of this document.



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## E. Additional Data Support

### *Service Enhancements*

#### **GIS**

*Converse* has developed broad GIS capabilities, working from ESRI's ArcInfo and ArcView platforms. Each office is linked via internet servers over fiber optic cables, allowing continuous access to company databases, rapid response to client needs, and consistent presentation of technical data. *Converse* Senior GIS Technician Richard Pugliese has five years of GIS experience with ArcInfo, including on-site training at ESRI's facilities in Redlands, California. Integration of boring logs, lab data and geographic data occurs through linking GIS data layers with software.

Two current examples of large technical projects that require CADD, GIS and data correlation include a large power generation facility in northwestern New Mexico that features the integration of a large well data set, over 60 soil borings of depths between 25 and 150 feet, geologic correlation of bedrock and alluvial units, evaluation of cut and fill requirements, placement of drilled shafts and supporting slabs, consideration of frost susceptible soils, and correlation of biological and archeological concerns during exploration activities. The second is a railroad project involving evaluation of hundreds of data points over a 315 mile curvilinear right of way, through a variety of public, private, tribal and federal lands. Over 100,000 unique data points are integrated into ArcInfo, allowing continuous interactive datasets to be developed and integrated into project design. *Converse* has dedicated a server to this project to allow rapid assembly of complex datasets.

#### **Converse Collaborator**

In addition to the above capabilities, *Converse* has also developed a proprietary software package that allows rapid upload and download of datasets, drawings and other large files for client specific use and review. Through the *Converse Collaborator* graphic user interface over *Converse's* dedicated server, the City of Peoria will obtain real time data and project status, review documents and GIS products and deliverables from their internet enabled computers. While *Converse Collaborator* may not be applicable to smaller projects, it has proven highly useful for larger, data intensive projects that require high amounts of client, consultant and design team interaction.

#### **Portable Technology in the Field**

Field personnel will use portable electronic equipment to fill out data forms and upload them to *Converse Collaborator* so the City of Peoria will have immediate access and 24/7 availability after the data has been reviewed for QA/QC by *Converse* project managers.

#### **Insurance**

*Converse* is conservative in business and takes no unnecessary liability risks. We can write \$5 million in E&O insurance, making *Converse* your Tyleneol.

#### **LEED**

*Converse* can assist in attaining various prerequisites and credits in the LEED process. These include services in the categories of sustainable sites (e.g., Brownfield issues), energy and atmosphere (e.g., building commissioning assistance), materials and resources (e.g., hazardous material evaluation for existing building material reuse) and environmental quality. *Converse* understands the LEED process



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and has a LEED certified industrial hygienist to utilize in any LEED project that the City of Peoria is pursuing.

### ***Health & Safety Training***

Employee health and safety training programs such as OSHA 10/30-hour, hazard communication, emergency chemical spill response, etc. can be tailored to the needs of the client. Converse expertise in this area will lend itself to the construction process and we can offer to provide these and other services to ensure a safe work site.

### ***Professional Affiliations***

Converse staff are encouraged and expected to actively participate in professional organizations within their specific disciplines to enhance their understanding of technical issues, assist with development of other professionals, and share expertise and lessons learned within the professional community.

### ***Sharing Our Expertise with the Engineering Community***

Examples of our commitment to our communities and professions include our involvement with the Arizona Chapter of the American Public Works Association. Converse staff regularly attends APWA functions and conferences. Converse Managing Principal Dean Alford is active with the APWA Education Committee and has facilitated short courses on environmental management systems. Converse also recently donated time and workshop materials for the APWA Public Works Institute.

### ***West Valley Involvement***

Converse is also an active member of Westmarc and staff regularly attends Westmarc committee meetings and events, keeping their pulse on what is happening in the West Valley. Converse Arizona Director of Client and Business Development Patricia Krogh participates in the Westmarc Economic Development Committee, Education Committee and Transportation Committee, and is currently working on the West Valley Workforce Study Subcommittee. Converse Senior Geologist Britt Callahan participates in the Westmarc Water Committee.

### ***Full Staff Commitment to Professional Development***

Other organizations we actively participate in as a company include the Arizona Chapter of the American Consulting Engineers Council, Arizona Society of Professional Engineers, Arizona Society of Professional Estimators, Air and Waste Management Association, Arizona Rock Products Association, Arizona Chapter of Associated General Contractors, Society of Marketing Professional Services, East Valley Partnership, Arizona Chamber of Commerce and Business and Industry, Greater Phoenix Chamber of Commerce, Association of Arizona Economic Development, and a host of other civic and professional organizations.

### ***Detailed Resumes***

Please see the resumes contained in the appendix of this document.

## **F. Exceptions**

Converse does not take exception to any part of this RFP.





**Dean E. Alford, C.E.M.**  
**Principal, Managing Officer**

**EDUCATION**

M.S., Geology/Geochemistry, New Mexico Institute of Mining and Technology, 1987  
B.S., Geology, New Mexico Institute of Mining and Technology, 1985  
Graduate Study, Hydrogeology, University of New Mexico  
Continuing Education, Environmental Science, University of California, Riverside  
Continuing Education, University of Nevada, Las Vegas  
Advanced Management Planning Program, University of Nevada – Reno, 2001

**CERTIFICATIONS**

Certified Environmental Manager - Nevada, Certificate No. 1088  
Professional Geologist - Nevada  
Licensed Asbestos Inspector, License No. I0781  
Nuclear Density Gauge Operator

**EXPERIENCE**

With Converse since 1990, Dean currently manages the Phoenix, Arizona office. He oversees all aspects of project management, coordination and scheduling, client interaction, and technical operations in Arizona. He specializes in environmental management and groundwater activities. He is well trained in geotechnical investigations as well as materials and laboratory testing.

**Representative Projects:**

Nevada Highway Patrol/Bureau of Land Management – Microwave Radio Tower – Elko Mountain, Elko, Nevada soils evaluation for foundation design investigation for a 100 foot tall guy-wire tower located at 7,000 feet elevation on Elko Mountain.

Nevada Department of Transportation -Carlin Interchange Design - soils investigation for the design of a freeway interchange east of Carlin, Nevada for access to the UNR Fire Science Academy. Work includes soil boring logging and laboratory testing.

Province Healthcare - Elko General Hospital, Elko, Nevada - Soils evaluation of a new three-story hospital facility. Work included soil-boring logging, laboratory testing and seismic evaluation.

Elko County School District - Transportation Facility – Soils investigation for foundation and pavement design for a 20,000 square foot bus maintenance and parking facility in Elko, Nevada. Work includes soil-boring logging, and laboratory testing.

Shoshone Paiute Tribe, Battle Mountain, Nevada – Soils evaluation of 15,000 square foot gymnasium facility. Work included soil-boring logging and laboratory testing.

Nevada Public Works Board - Materials Testing and QA/QC - Elko Armory Paving Project - Project manager for paving rehabilitation for the Elko Armory, Elko, Nevada. Work included project inspection and plan review, concrete, asphalt, subgrade and aggregate base field and laboratory testing, and project reporting.

Elko County Department of Public Works - Coal Mine Canyon Road - Soils investigation for the design of a two mile long road county in Ryndon, Nevada. Work includes soil boring logging and laboratory testing.

Barrick Goldstrike Mines, Inc. - Concrete Backfill Plant Geotechnical Design, Carlin, Nevada – Soils

investigation for evaluation of a concrete slurry backfill plant for Goldstrike's Rodeo underground mine project. Work included subsurface soil logging and laboratory testing.

**Miscellaneous Road Testing Projects** - Project manager for several road project QA/QC Testing projects. Projects include road rehabilitation projects for the City of Elko, City of Carlin, Elko County, Goshute Housing Authority and numerous private clients. Work includes lab and field-testing for soils, concrete, and asphalt.

*Hydrogeologic Studies for Wastewater Disposal - Various Locations - Bullhead City, Arizona and Laughlin, Nevada* - Mr. Alford has performed over 30 RIB studies in the Laughlin, Nevada and the southern Mohave County, Arizona area. We have performed hydrogeologic studies to evaluate site conditions to determine if proposed and existing rapid infiltration basins meet Federal guidelines for disposal of 10,000 to 2,000,000 gpd treated wastewater. Studies commonly include flooding basin tests, infiltrometer tests, percolation tests, site geologic and hydrogeologic conditions, trenching, monitor well and soil boring drilling, basin design, recommendations for wastewater application, loading rates and loading cycles, permitting, and basin size requirements.

*Rapid Infiltration Study - Housing Developer - Golden Valley, Arizona* - To evaluate the requirements to construct and utilize a Rapid Infiltration Basin for treated effluent disposal, Mr. Alford oversaw drilling of shallow soil borings, logged shallow trenches, and completed double ring infiltrometer tests to assess disposal methods for wastewater effluent. Mr. Alford made recommendation for design requirements and basin floor area required for disposal, application rates, loading schedules and loading cycles.

*Storm Water Pollution Prevention Plan - BHP Copper Inc., Pinto Valley Mining Division, Miami Unit - Miami, Arizona* - Mr. Alford conducted an extensive study of storm water flows and drainage for this 700 acre active mine site. Over 25 active facilities were evaluated for their potential impacts to storm water quality, and best management practices were evaluated for application to site activities. Strategies were developed for storm water management implementation.

*Shallow Groundwater and Geotechnical Investigation - Clark County Department of Public Works - Clark County, Nevada* - Test drilling, permeability testing, surface and groundwater monitoring, and data interpretation. Evaluated the cause of shallow and rising groundwater levels. Recommended methods for mitigating problems and made future land development recommendations.

*Resource Investigation - Cyprus Bagdad Copper Mine - Bagdad, Arizona* - Mr. Alford conducted a water resources investigation, aquifer protection program permit preparation, supervised well drilling, performed logging, and testing of wells in the active mine area to evaluate areas of potential mine expansion.

*Dewatering Analysis, Desert Inn Superarterial - Clark County Department of Public Works (through G.C. Wallace, Inc.) - Clark County, Nevada* - Mr. Alford oversaw drilling, installation, and completion of twelve monitoring and groundwater test wells to evaluate groundwater conditions for estimation of costs and requirements for construction and permanent dewatering of a quarter mile long, 25 foot deep roadway tunnel. He also provided full service aquifer testing and data analysis, and made recommendations for design and construction off-sets. Production rates during dewatering were over 1.2 million gallons per day from more than 60 dewatering well points.

*Pedestrian Tunnel Dewatering Investigation - Harrah's Hotel and Casino - Las Vegas, Nevada* - Mr. Alford oversaw drilling, installation, and completion of six monitoring and groundwater test wells to determine hydrologic parameters for dewatering of a pedestrian tunnel. For this fast track project complicated by environmental impacts to groundwater and an aggressive construction schedule, Converse provided permitting, remedial system design and construction, and dewatering system design for the project in less than three weeks, start to finish.



# James D. Rose, P.E. Senior Geotechnical Engineer

## EDUCATION

B.S., Civil Engineering, 1980  
B.S., Mechanical Engineering, 1965  
Graduate Studies, Civil/Mechanical Engineering

## REGISTRATIONS/CERTIFICATIONS

Civil Engineering, Arizona, 1989  
Professional Engineering, Texas, 1987  
Professional Engineering, New Mexico 1980

## MEMBERSHIPS

ASCE – AZ Chapter  
AZ – APWA  
ACEC - AZ Chapter

## EXPERIENCE

As Senior Geotechnical Engineer, Mr. Rose has over 25 years experience in geotechnical engineering, materials testing and environmental services. He currently manages engineering projects for Converse's Four Corners Region, which includes Colorado, Utah, Arizona and New Mexico. His experience spans municipal, public works, heavy industrial, commercial, residential, transportation and mining services.

## REPRESENTATIVE PROJECT EXPERIENCE

**Desert Rock Energy Project, Farmington, New Mexico.** Senior geotechnical engineer for the subsurface investigation and foundation design for new 1500 MW generating facility. The 600 acre site is being developed on the Navajo Nation, and will use coal as the primary fuel from the adjacent Navajo Coal mine. Work included a complete geotechnical investigation, including evaluation of bedrock, coal seams and shallow alluvial soils, drilling 50 borings.

**Waveyard Project, Mesa, Arizona.** Senior engineer for preliminary geotechnical investigation of major water park, hotel and retail facilities for a private developer. Project required coordination with **City of Mesa Parks Department** and exploration during winter seeding period in October. Exploration required percussion hammer and hollow-stem auger for foundations located within the Riverview Golf Course and Park.

**Coronado Ranch, Queen Creek, Arizona.** Geotechnical engineer for 660-acre master planned community. Provided earthwork recommendations **enabling the client to save \$1 million** in earthwork costs.

**Out lot Structure, Bullhead City, Arizona,** Project engineer for the subsurface investigation and foundation design for an out lot commercial structure. Work included a complete geotechnical investigation, including evaluation of severe hydro collapse soil conditions, and site improvements.

**Ray Road Subdivision, Chandler, Arizona.** Senior engineer for the geotechnical investigation for a 19 acre subdivision. Work included a complete geotechnical investigation, including evaluation of severe hydrocollapse soil conditions, and swelling clays.

**Hardy Drive Subdivision, Tempe, Arizona.** Senior engineer for the geotechnical investigation for a 21

acre subdivision. Work included a complete geotechnical investigation, including evaluation of severe hydrocollapse soil conditions, and swelling clays.

**Fulton Residence Geotechnical Design, Chandler, Arizona. Senior Geotechnical design for custom residence in exclusive Stellar Airpark area of Chandler, AZ. Work included 6 borings and lab testing for three level 10,000 sq. foot residence with helicopter hangar.**

**Telecommunications Towers, Maricopa, Pima, Apache and Navajo Counties, Arizona; McKinley and San Juan Counties, New Mexico.** Senior engineer for the geotechnical investigation for numerous telecommunications facilities, including equipment shelters. Duties included special inspections for foundation reinforcement, anchor bolting and structural bolting. Also, some foundation and reinforcement design for monopole towers.

**Arnon Distribution Center, Phoenix, Arizona.** Senior engineer for the geotechnical investigation for a 250,000 square-foot industrial facility. Work included foundation recommendations for soft soil conditions involving extensive soil improvement for foundation support, lime treated clay subgrade improvements for street designed to City of Phoenix standards and other unique challenges.

**Sky Harbor Access, Sky Harbor International Airport, Phoenix.** Principal-in-Charge, geotechnical exploration for design of a major urban freeway into Sky Harbor International Airport, including Portland cement concrete drilled shaft bridge foundations to 120-foot depth for AASHTO designed bridges, pavement sections and abutment protection.

**Terminal Four (Goldwater), South Concourses and Apron, Sky Harbor International Airport, Phoenix.** Principal-in-Charge for geotechnical exploration for design of foundations for two (2) south concourse structures and apron pavements at Sky Harbor International Airport. Terminal. Terminal Four construction project by the City of Phoenix represented a \$224 Million investment.

**Price Freeway (Arizona 101), Maricopa County, Arizona.** Senior engineer for the management level geotechnical investigation for 6 miles of proposed freeway from Baseline Road to Pecos Road including overpass locations for arterial intersections, main roadbed pavement design and relocation of Tempe Canal. Work also included review of other consultants work on preliminary study of 21 miles of proposed bypass around South Mountain on I-10 system involving significant rock cuts and realignment.

**Arizona State Route 77, White Mountain Lake to Shumway,** Senior engineer for the geotechnical investigation for approximately 5 miles of 2-lane and 4-lane highway realignment, extensive soil and rock cuts and fills, seepage and drainage challenges.

**Arizona State Route 68, Kingman to Bullhead City.** Project Engineer for the geotechnical investigation for approximately ten miles of the new SR 68 alignment, including bridge structures, and Sacramento Wash storm drainage channel under the bridges. Work included geotechnical recommendations affecting design of the pavement section, embankment analysis, scour analysis of the drainage channel, and drilled shaft bridge foundations for AASHTO designed structures.

**Taxiways A and B, Sky Harbor International Airport, Phoenix.** Principal-in-Charge of geotechnical exploration for design of flexible and rigid pavement sections for major taxiways and high-speed cross taxiways serving both east-west runways at Sky Harbor.

**Third Runway and Relocation of the Arizona Air Guard Facility, Sky Harbor International Airport, Phoenix.** Project inspector for the 18-inch portland cement concrete pavement sections and all earthwork for the third east-west runway and relocation of all Arizona Air Guard buildings and infrastructures. Liaison between Construction Manager and City of Phoenix Airport Facilities.

**PCB and Site Contamination Study for Coolidge Diesel Plant for San Carlos Irrigation Project,**

**Coolidge, Arizona.** Principal-in-Charge of geotechnical exploration for PCB and petroleum contamination of soils at maintenance facility. Mapped areas of PCB contamination. Conducted investigation for leaking petroleum lines and tanks. Composed report of findings and recommendations for remediation of all hazardous substances identified at site.

**Turnkey UST and Fueling Facility, Bus Maintenance Facility, Ganado Unified School District, Ganado, Arizona.** Principal-in-Charge of geotechnical exploration for petroleum contaminated soils at existing fueling station. Prepared recommendations and specifications for replacement of existing tank with double-walled diesel UST and fuel dispensing pumps. Services included recommendations for land-farming of contaminated soils, assisting in selection of contractor, inspection of all work in progress and project close-out. Project involved working directly with the Navajo EPA for compliance with all regulations.

**Parking Garage and Four Story Condominiums, Scottsdale, Arizona.** Senior engineer for the geotechnical investigation for a 6-level parking garage with 1400 kip drilled shaft loads and 4-story attached condominium structures. Work included directly working with owner/builder and structural engineer on foundation recommendations for use of shallow footings on improved soils, inspection of belled drilled shafts and shallow footing inspection.

**Bridge – Via Linda and Lupine Drive, Scottsdale.** Senior engineer for the geotechnical investigation for a single span precast Coreslab® bridge. Project included directly working with structural engineer and design/build contractor for foundation recommendations. Exploration involved combination of hollow stem auger and NX diamond core drilling.



**Jose Ojeda**  
**Project Manager**  
**Construction Materials Testing**  
**Special Inspections**

**EDUCATION**

Deming High School, Deming NM.

**CERTIFICATIONS**

**ADOT CERTIFICATIONS:**

ATTI Field Technician Level 1

**OTHER CERTIFICATIONS:**

ACI Field Technician Level 1

Nuclear Density Gauge Operator

ICC Structural Masonry Inspection

ICC Fireproofing Inspector

AWS. Certified Welding Inspector

**EXPERIENCE**

Jose has been in the CMT industry for over eight years. Over the last four years Jose has been a project manager for a variety of CMT and Special Inspections projects. His responsibilities include the review of construction site plans and specifications, consultation with clients and contractors on proper interpretations of plans and specifications, review of mix designs for concrete and asphaltic concrete, soil and aggregate testing, daily field reports, monthly billing, writing and completion of final reports and project management of construction materials testing projects. Projects consisted on a wide variety of projects from large residential subdivisions, commercial buildings, bridges, highway, rail road, and commercial nuclear facilities,

**Recent Project Experience:**

Jose served as the CMT project manager for the following projects. His responsibilities included day to day management of the project including scheduling, billing, review of testing and inspections, attending weekly meetings and assuring client satisfaction. Writing and producing of the final reports.

- **Covance Testing Facility, Chandler AZ** - Four-story 250,000 square-foot testing facility,
- **Rome Towers, Gilbert AZ** - Five-story 200,000 square-foot office buildings and parking garage
- **Scottsdale Health Care Center, Scottsdale AZ** - Three-story 155,000 square-foot medical hospital
- **Scottsdale Gray hawk Medical Building, Scottsdale AZ** - Three-story 100,000 square-foot medical building
- **Chandler Wal-Mart super center** - 210,000 square-foot super center
- **City of Phoenix annual streets contract** - Various on call projects
- **Tierra Del Rio North and South** - Master planed residential community
- **Tortosa South, Maricopa AZ** - Master planed residential community



# CONVERSE CONSULTANTS

MATTHEW B. CALLAHAN, RG, CEM

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## Senior Geologist

### EDUCATION

BS, Geology, Northern Arizona University, Flagstaff, Arizona  
Graduate level study-Carbonate Petrology

### CERTIFICATIONS

Registered Geologist: Arizona, No. 32161  
Certified Environmental Manager: Nevada, No. 1809  
Certified Red Cross First Responder Instructor Trainer

### SPECIALIZED TRAINING

Hazardous Waste Operations and Emergency Response (HAZWOPER) 40-Hour Training  
5-Day Course sponsored by Baroid Industrial Drilling Products on Industrial Drilling Fluids Applications and Properties at the Baroid Facility in Houston, Texas  
Seminars for Municipal Supply Well Design, Testing and Management, and Well Rehabilitation and Maintenance  
EPA sponsored courses for TRI/EPCRA Reporting and for Innovative Site Characterization Techniques at CERCLA sites

### EXPERIENCE SUMMARY

Currently Senior Geologist with over 16 years of experience in environmental consulting and over 9 years of experience with water resource development, including design, data collection and construction oversight for the installation of small to large diameter municipal water supply wells. Responsible for project and personnel management for environmental site assessments and/or remediation performed at multiple sites in Arizona, Nevada and New Mexico in various phases of assessment and/or remediation. Sites include soil and groundwater assessment and remediation at industrial/commercial, agricultural, and bulk petroleum storage and distribution facilities. Experience includes site assessments; hydrologic and geologic data collection and interpretation; performing remedial pilot tests and aquifer testing; Client and regulatory liaison and/or negotiations.

#### *Desert Rock Energy, San Juan County, New Mexico*

Mr. Callahan is currently overseeing groundwater resource development efforts for Sithe Global Energy in San Juan County, New Mexico. Water resources efforts include designing and overseeing drilling, construction and testing of two water wells to depths of 5,800 feet in support of preliminary hydrogeologic evaluations. This exciting, technically challenging project is unique in many ways, including the number of regulatory agencies involved and the unique geology and hydrogeology of the San Juan Basin and the Colorado Plateau. Data obtained will be utilized for well field design and support an EIS for the project.

#### *Former James Bond Ranch – Chino Valley, Arizona*

Performed geologic reconnaissance mapping and aerial mapping and interpretation and well drilling oversight for a hydrogeologic evaluation of the property prior to its planned development. The property encompassed the historical territorial capital of Arizona, historic springs with water rights dating to 1864, and encompassed the headwaters of the Verde River.

#### *City of Goodyear, Arizona – Replacement Well*

Provided direct oversight and management for drilling of a replacement well, including well siting, permitting, lithologic and geophysical logging, selection and sampling of discrete zonal sampling intervals, and well design and construction. The previous well had reported high arsenic, high total dissolved solids (TDS) and high

temperature. The replacement well was completed with 16" casing and screen to 850 feet bgs and had resulting water quality had notably lower Arsenic, lower TDS and slightly lower temperature.

*Native American Nation, North Central Arizona*

Successfully managed permitting of an Arizona Department of Transportation (ADOT) "Materials Source" permit for a small Native American Community. Coordinated engineering, biological and geological data collection, and received commendation from ADOT personnel on final report.

*Confidential Client – Cave Creek, Arizona*

Client was developing a 160-acre parcel and requested a well be drilled with a desired yield of 20 gpm in an area with an average production of 3 gpm for domestic wells. Provided Geologic mapping of the area and sited well near a mapped fault. Well was drilled and completed to 500-feet with an estimated minimum yield of 100 gpm.

*Arizona Department of Transportation, Phoenix, Arizona*

Supervised assessment of two adjoining properties including a former transmission repair facility. Removed various liquid and solid waste streams from the property, excavated and removed petroleum-impacted soils, and located and closed a former abandoned septic tank used for waste oil disposal.

*Shell Oil Products US – Program Director*

Mr. Callahan was the designated program director for Shell Oil Products US (SOPUS) projects in Arizona, Nevada and New Mexico. He supervised the ongoing environmental site assessment and remediation at over 50 sites, and coordinated the real estate divestiture support efforts including Phase I ESA Reports and Phase II ESA assessment and report preparation at over 100 sites. In 2003 Mr. Callahan was named Project Manager of the Year by the SOPUS western regional manager.

*Confidential Client, Gilbert, Arizona*

Managed assessment and remedial excavation of former agricultural property proposed for development with pesticide/herbicide impacts, USTs, aboveground storage tanks; disposal of polychlorinated biphenyl-containing transformers; drummed liquid and solid waste; and properly abandoned two domestic wells, and five abandoned irrigation wells, 6- to 20-inches in diameter, to depths of 1,200 feet below ground surface.

*Former Tanner Companies, Phoenix, Arizona*

Provided project management/supervision for the excavation of approximately 100,000 cubic yards of petroleum-impacted soil from an UST/solid waste facility at a former asphalt/concrete batch plant adjacent to the Salt River in Phoenix, Arizona. Excavated soil was transported off site for use as asphalt batch materials.

*Confidential Client, Phoenix, Arizona*

Managed assessment of an active automall. Excavated/removed five underground storage tanks (USTs); assessed two drywells; two interceptors; and associated floor sinks. Excavated/removed soils exceeding regulatory levels and received closure. Identified hazardous constituents in one interceptor, one drywell and several floor sinks. Assessed/cleaned the drywell and drywell chamber. Determined alternative cleanup level for lead, closed drywell without an aquifer protection permit by drafting a BMPP. Identified probable sources of interceptor impacts in floor sinks, flushed sinks to interceptor and removed hazardous waste.

*Confidential Client, Cornville, Arizona*

Provided litigation support, including courtroom testimony, technical expertise and statistical sampling in Arizona and Utah for a client alleged to have improperly disposed of Resource Conservation and Recovery Act (RCRA) hazardous waste.

*Confidential Client, Former Electronics Facility, Albuquerque, New Mexico*

Supervision and project management for an assessment of chlorinated solvents in soils and groundwater at a former electronics manufacturing facility in Albuquerque, New Mexico. The assessment included: soil and groundwater sampling, drilling of three groundwater monitor wells to depths of approximately 650 feet with a mud rotary drill rig; advancing soil borings inside facility buildings with skid-mounted hollow-stem auger rig; installing, monitoring and sampling soil vapor probes.

*Confidential Clients – Pinal Creek, Globe, Arizona*

Performed stream flow estimation, documentation and sampling of iron/magnesium seeps, and water quality sampling, downstream of Inspiration Dam, along Pinal Creek using HACH® Vac-Tube Colorimetric method.



# Jeff B. Baer Laboratory Manager

## EDUCATION

HTI Phoenix, AZ - Assoc. Degree Computer Electronics

## CERTIFICATIONS:

ATTI Soils and Aggregates Technician

ATTI Asphalt Technician

ACI American Concrete Institute Field Level I

ACI Strength Testing Technician

NICET Level 1-Soil, Aggregate, and Asphalt

Nuclear Density Gauge Operator

## EXPERIENCE

June 2008-Present - Converse Consultants, Laboratory Manager, Materials Testing and Inspection with over 14 years experience. Mr. Baer currently provides field and laboratory testing services for Converse's Four Corners Region, based in Phoenix, Arizona. Services include concrete, field testing and inspection, laboratory compressive strength, soils inspection and field testing, laboratory soils testing, and asphalt inspection and testing. Projects include QA/QC services for concrete at Arizona Metro Mix's Pinal County plant, laboratory testing for multiple clients, and maintenance of laboratory accreditation with AMRL, CCRL, and AASHTO.

### **Previous Employers:**

**Alpha Geotechnical, Laboratory Supervisor** - Responsibilities included: Review of lab reports and maintain AMRL/CCRL certifications. Oversaw all lab testing, daily supervision of staff, client interaction, scheduling and training of Lab personnel.

**Law Engineering, Laboratory Supervisor**, General responsibilities include: Daily operations of specified laboratory testing for completion and accuracy, ensuring the test results were reported in an accurate and timely manner, ordering laboratory supplies, reviewing laboratory reports, scheduling and training of laboratory personnel, ensuring technical compliance with ASTM / AASHTO testing procedures, and keeping the laboratory AMRL / CCRL certified.

**City of Mesa, Laboratory Supervisor** - Field duties included: Performed all required testing including the following: Field testing for all major roadway capital improvement government projects: Fog Seal; Crack Seal; Asphalt, Soil and Concrete testing, Nuclear Density Testing; Soil, Asphalt, and Concrete sampling.

## TYPICAL LABORATORY EXPERIENCE:

### CONCRETE TESTS

- Laboratory Trial Batch
- Compression Test
- Core Compression Test
- Flexure Test
- Modulus of Elasticity
- Length Change

### AGGREGATE TESTS

- Sieve Analysis
- Specific Gravity and Absorption
- Unit Weight
- Abrasion
- Sand Equivalent
- Organic Impurities
- Clay Lumps and Friable Particles
- Fractured Faces
- Light Weight Pieces
- Flats and Elongates

### CONCRETE BLOCK ASTM C140

- Cleanness Value
- Moisture Content
- Absorption
- Compression
- Shrinkage

### MASONRY PRISMS ASTM C1314

- Compression Testing

### MORTAR & GROUT

- Compression Testing

### FIREPROOFING TESTS

- Oven Dry Density

### SOIL TESTS

- Liquid & Plastic Limit
- Sieve Analysis
- Hydrometer Analysis
- Consolidation
- Clay Expansion
- Chemical Heave

- Solubility
- Direct Shear
- Remolding Samples
- Unconfined Compression
- Moisture/Density Curve
- Specific Gravity
- Permeability
- R-Value
- CBR
- Relative Density
- Soil/Cement, Mix Designs

### ASPHALTIC CONCRETE

- Stability, Flow, and Unit Weight, Marshall
- Measured Maximum Specific Gravity of Mix
- Voids Analysis
- Extraction
- Specific Gravity
- Retained Strength



## Daniel Hogan Project Manager

### EDUCATION

California State Polytechnic University, Pomona, California  
Mt. San Antonio College, Walnut, California

### CERTIFICATIONS

NAQTC – Aggregate, Asphalt, Extended Sampling and Density  
NICET Level III – Construction Materials – Soils, Asphalt, Concrete  
ACI – Grade I, Field Technician, Laboratory Technician, Field Aggregate Technician  
ACI – Grade I and II, Laboratory Technician  
ACI Transportation Inspector

### EXPERIENCE

Mr. Hogan has over 18 years of experience in construction materials testing. As Project Manager, he is responsible for the overall management of the project and the supervision of technicians, inspectors and other personnel assigned to the project. He has direct supervisory responsibility for all technical and operational tasks performed for assigned projects, including engineering, testing, inspection, reporting, in-house quality assurance, marketing and operational tasks such as billing, collections, personnel and planning. Prior to joining Converse, Mr. Hogan served as a Project Manager and Lab Manager responsible for the day to day operations of the Materials Testing Department including management and scheduling, project administration, technical oversight of projects, development of cost proposals, and overseeing project budgets and financials.

He has provided technical support, scheduling, training and project oversight, including the review of lab data for material acceptance letters, and preparation of final reports and has been involved in AMRL/CCRL Programs since 1995. Mr. Hogan worked on and managed large mass grading projects, inclusive of over 3 million cubic yards of import materials, responsible for Portland cement and asphaltic concrete testing and inspection in accordance with ASTM and ASHTO Specifications and has been involved in QA/QC public works projects for airports, roadways, and channels.

### REPRESENTATIVE PROJECTS

#### LABORATORY TESTING

- Arizona Metro Mix – Mix Designs, Aggregate Evaluations
- Las Vegas Valley Water District
- Las Vegas Paving
- American Sand & Gravel
- Bechtel Corporation, McCarran 2000

#### CONSTRUCTION AND DEVELOPMENT

- Clark County Water Reclamation District – Primary Clarifiers 11 & 12, South Secondary Treatment Facility, Phase 1B
- Junipero Serra Bridge, Cal Trans
- 2 Mile – 90" Storm Drain, Catellus Development
- Pebble Bridge at Duck Creek, Pardee Construction
- McCullough Detention Basin, G.C. Wallace
- North Valley Infrastructure, North Valley Enterprises
- Pulverize and Pave, Clark County Public Works
- Duck Creek Channel – Phase II, Harris & Associates
- "A" Channel – Craig Confluence Project, City of North Las Vegas
- Broadbent Box Culvert at Duck Creek, Clark County Public Works

- Western Beltway (Summerlin Pkwy. To Cheyenne Ave.), Clark County Public Works
- Western Beltway (Buffalo Road to Sunset Road), Clark County Public Works
- Nellis Road and Bridges (Russell Road to Hacienda Blvd.), , Clark County Public Works
- McCarran 2000 Contract 2103 & 2104, Clark County Dept. of Aviation
- McCarran Airport Terminal D Expansion Contract 2136, Clark County Dept. of Aviation
- Fort Apache Road (Tropicana Venue to Desert Inn Road), Clark County Public Works



**Adam M. Gordon**  
**Field Technician**

**EDUCATION**

High School Graduate

**REGISTRATIONS/CERTIFICATIONS**

NAQTC Field Technician

ACI #065855:

Concrete Strength Testing Technician

Concrete Field Testing Technician-Grade I

Nuclear Gauge

**REPRESENTATIVE PROJECTS**

**RESIDENTIAL**

**Duck Creek Channel, Clark County, Nevada** – Mr. Gordon performed field testing and inspections for concrete, soils, and rebar on approximately 2.5 miles of drainage channel.

**Paradise Hills Residential Development, Henderson, Nevada** – Mr. Gordon performed field testing and inspections for concrete, epoxy bolts and post tension cables for garages.

**Cielo Residential Development, North Las Vegas, Nevada** – Mr. Gordon conducted field testing and inspections for concrete, epoxy bolts and post tension cables for garages.

**Bandera Residential Development, Clark County, Nevada** – Mr. Gordon performed field testing and inspections for concrete, epoxy bolts and post tension cables for garages.

**Valencia Residential Development, Las Vegas, Nevada** – Mr. Gordon conducted field testing and inspections for concrete, epoxy bolts and post tension cables for garages.

**Royal Wood Residential Development, Clark County, Nevada** – Mr. Gordon performed field testing and inspections for concrete, epoxy bolts and post tension cables for garages.

**Morning View Residential Development, Clark County, Nevada** – Mr. Gordon conducted field testing and inspections for concrete, epoxy bolts and post tension cables for garages.



## **Antonio M. Bandalés** **Laboratory Technician**

### **EDUCATION**

B.S. Civil Engineering/1983/Adamson University, Manila, Philippines

### **REGISTRATIONS/CERTIFICATIONS**

ACI Grade I  
NICET Level I: Asphalt, Soils, Concrete  
Nuclear Gauge Certified

### **EXPERIENCE**

Mr. Bandalés has 17 years experience as a laboratory technician. As laboratory technician, Mr. Bandalés conducts lab tests for projects governed by the Clark County Building Department/Public Works Department, the City of Las Vegas, the City of Henderson, McCarran Airport, the Federal Highway Administration and the Nevada Department of Transportation.

### **TYPICAL PROJECT EXPERIENCE**

#### **CONCRETE TESTS**

- Laboratory Trial Batch
- Compression Test
- Core Compression Test
- Flexure Test
- Modulus of Elasticity
- Length Change

#### **AGGREGATE TESTS**

- Sieve Analysis
- Specific Gravity and Absorption
- Unit Weight
- Abrasion
- Sand Equivalent
- Organic Impurities
- Clay Lumps and Friable Particles
- Fractured Faces
- Light Weight Pieces
- Flats and Elongates
- Cleanness Value

#### **CONCRETE BLOCK ASTM C140**

- Moisture Content
- Absorption
- Compression
- Shrinkage

**MASONRY PRISMS ASTM C1314**

- Compression Test

**MORTAR & GROUT**

- Compression Test

**FIREPROOFING TESTS**

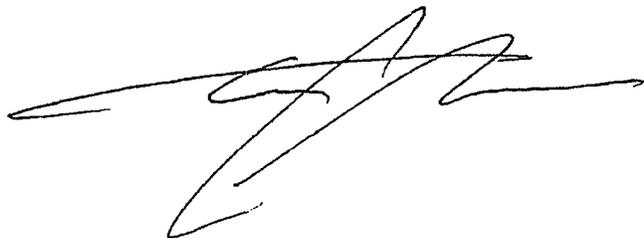
- Oven Dry Density

**SOIL TESTS**

- Liquid & Plastic Limit
- Sieve Analysis
- Hydrometer Analysis
- Consolidation
- Clay Expansion
- Chemical Heave
- Solubility
- Direct Shear
- Remolding Samples
- Unconfined Compression
- Moisture/Density Curve
- Specific Gravity
- Permeability
- R-Value
- CBR
- Relative Density
- Soil/Cement, Mix Designs

**ASPHALTIC CONCRETE**

- Stability, Flow, and Unit Weight, Marshall
- Measured Maximum Specific Gravity of Mix
- Voids Analysis
- Extraction
- Specific Gravity
- Retained Strength

A large, stylized handwritten signature in black ink, consisting of several overlapping loops and a long horizontal stroke extending to the right.



# Robert Pucillo

## Materials Testing and Inspection

### EDUCATION

Continental Academy, Coral Gables, Florida

### CERTIFICATIONS

#### **ADOT CERTIFICATIONS:**

ATTI Soils and Aggregates Testing  
ATTI Field Technician Level 1

#### **OTHER CERTIFICATIONS:**

ACI Field Technician Level 1  
ACI Compressive Strength Testing Technician

Nuclear Density Gauge Operator

#### **FDOT CERTIFICATIONS:**

Asphalt Paving Technician Level 1  
Contract Plan Reading  
Construction Math  
Pipe Placement  
Base & Sub grade Inspection  
EPA Storm Water Management

### EXPERIENCE

4/2007-Present - Converse Consultants, Project Manager, Materials Testing and Inspection - Mr. Pucillo currently provides field and laboratory testing services for Converse's Four Corners Region, based in Phoenix, Arizona. Services include concrete, field testing and inspection, laboratory compressive strength, soils inspection and field testing, laboratory soils testing, and asphalt inspection and testing. Projects include QA/QC services for concrete at Arizona Metro Mix's Pinal County plant, compaction testing and laboratory soils testing for Fulton Homes, and assistance with laboratory accreditation with AMRL, CCRL, and ADOT.

#### **Previous Employers:**

**Krazan & Associates, Laboratory Manager**, General responsibilities include: Performing all sampling, testing, and final result calculations for all procedures in the lab pertaining to, asphalt, concrete, soils and aggregate testing. Performed initial construction of lab facility, including; concrete curing and testing system, soils and aggregate testing equipment and nuclear density gauge storage room. Responsible for: fabrication, maintenance, installation, repair, and calibration of all laboratory and field testing equipment. Established and implemented, company and in-house derived, departmental operating policies, procedures and work standards; acquisition and maintenance of laboratory accreditation with AMRL and CCRL. Field duties include: Sampling and testing of concrete, grout and other masonry materials. Soil sampling and density testing by means of nuclear density gauge and sand cone method. Asphalt sampling and density testing by means of nuclear density gauge, and structural steel inspections. Geotechnical duties: Percolation testing, soil sampling with drill rig/driven ring method, and manual hand auger. Projects include inspection services for Lowe's Home Stores of Scottsdale, Buckeye and south Phoenix, geotechnical and inspection services for the Daisy sour cream plant in Casa Grande.

**Ninyo & Moore, Field/Lab Technician** - Field duties included: Sampling and testing of concrete, mortar, and grout, and CMU blocks per applicable ASTM test methods. Base and subgrade testing by means of nuclear density gauge, and the sand cone method; asphalt sampling and density testing by means of nuclear density gauge. Laboratory duties included: gradations, Ph & resistivity testing, Atterberg Limits, maximum density and optimum moisture content of soils, and expansive index testing. Asphalt testing including: extraction and gradation, theoretical maximum density, bulk specific gravity, and marshals. Projects include: Lake Pleasant Water Treatment Facility.

**Trumbull Corporation, Inspector Aide/RCO** - Responsibilities included: Onsite QA of milling and paving operation for an 18 mile long section of SR 80 in Bell Glade Florida. Daily verification of cross slope and depth of milling operations, laying out core locations, calculating yield and spread rate data for paving operations, monitoring M.O.T. operations, recorded sod placement by the latitude and departure method, full documentation of onsite construction activities. RCO responsibilities included: On site Labor Interviews and Daily/Weekly Reports and Monthly Observation Reports for FDOT EEO compliance.



***Summer Internships - Apex Geosciences Construction Services, Tyler, Texas - Responsibilities included: Soil sampling, performing soil density tests by means of a Troxler gauge. Performing 200 sieve washes. Sampled and tested freshly mixed concrete in accordance with ACI procedures. Documentation of construction operations.***

- **Current Member of the Arizona Rock Producers Association**



## Luis Guerrero Field Technician

### Certificates

ACI Field Technician I  
NAQTC – Field Technician  
Nuclear Gauge

### Experience

During his 4 years as a Field Technician working in the materials testing profession, Mr. Guerrero has performed field testing on construction materials such as concrete, soils, asphalt, masonry, and epoxy installation.

### *Typical Project Experience Includes:*

**Dean Peterson Elementary** – As a field technician performed Field testing on construction materials such as Concrete, Soils, Asphalt, Masonry, Epoxy installation.

**Brookman Elementary** – As a field technician performed Field testing on construction materials such as Concrete, Soils, Asphalt, Masonry, Epoxy installation.

**Canyon Pointe Parcel III** – As a field technician performed Field testing on construction materials such as Concrete, Soils, Asphalt, Masonry, Epoxy installation.

**North West Family Golf Course** – As a field technician performed Field testing on construction materials such as Concrete, Soils, Asphalt, Masonry, Epoxy installation.

**Primary Facilities** – As a field technician performed Field testing on construction materials such as Concrete, Soils, Asphalt, Masonry, Epoxy installation.

**Central Plant** – As a field technician performed Field testing on construction materials such as Concrete, Soils, Asphalt, Masonry, Epoxy installation.

**Northern Beltway** – As a field technician performed Field testing on construction materials such as Concrete, Soils, Asphalt, Masonry, Concrete Pavement, Asphalt Pavement, Epoxy installation.

**Mercury Highway - Nevada Test Site:** As a field technician, Mr. Guerrero performed field testing for a three mile road rehabilitation on construction materials such as concrete, soils, masonry, road bed modification (CTB), asphalt pavement and epoxy installation.

**Northern Beltway 11A & 11B - Clark County Public Works/Nevada Department of Transportation:** New construction of four lane interim roadway. As field technician, Mr. Guerrero performed field testing on construction materials such as concrete, soils, masonry, concrete pavement, asphalt pavement and epoxy installation.

**Northern Beltway, El Capitan to Jones - Clark County Public Works/Nevada Department of Transportation:** Construction of a four lane interim roadway. As field technician, Mr. Guerrero performed field and lab testing on construction materials such as concrete, soils, masonry, concrete pavement, asphalt pavement and epoxy installation.



## **Nelsene E. Alford** **Project Coordinator**

### **EDUCATION**

B.S., Biology, University of Nevada – Las Vegas  
University of New Mexico

### **REGISTRATIONS/CERTIFICATIONS**

Nuclear Density Gauge Operator  
ACI – Field Inspector Grade I  
Maricopa County Certified Dust Control Coordinator  
ASTM Phase I/II Training Course  
USFWS-Authorized Desert Tortoise Biologist  
Wetlands Delineator/U.S. Army Corps of Engineers  
Licensed Asbestos Inspector/Project Monitor  
Mold Assessor  
CPR/First Aid

### **EXPERIENCE**

With Converse since 1994, Ms. Alford has developed a broad set of skill in materials testing and inspection, and environmental services. She has sampled and conducted field and laboratory tests for concrete, asphalt and aggregates for over 10 years. Other duties include program development and management, Phase I/II environmental Site Assessments, asbestos and microbiological evaluations for Indoor Air Quality Investigations, threatened/endangered species, wetlands, biological services, biological assessment, environmental assessments, NEPA permitting and biological aspects of mining reclamation.

She has provided field materials testing efforts for public and private clients , including NDOT, NPWB, private luxury custom homes in Phoenix and Scottsdale, AZ, and several commercial development projects.

Ms. Alford investigated wetlands, riparian areas, and conducted limnological evaluations for areas near the Lake Mead National Recreation Area, and Cold Creek, Clark County, Nevada, and the Thousand Springs area, Elko County, Nevada. Wetlands delineations and constructed wetlands evaluations for the City of Elko, Shoshone Creek Estates, South Fork Reservoir, and Maggie Creek Ranch, Elko County, Nevada. She has also conducted a biological assessment for the Canyon Resources – (proposed) Reward Gold Mine near Beatty, NV.

Ms. Alford has conducted investigations for bio-remediation of petroleum-contaminated soils at several locations in Nevada. Evaluated air quality to meet air permit requirements, prepared air permit applications with the Nevada Division of Environmental Protection, evaluated data and prepared reports.

She has been extensively involved with data preparation for mine site bonding calculations and revegetation issues. She assisted with preparation of maps for gold mining operations in Elko, Nye, and White Pine Counties, Nevada. In addition, she has assisted with compilation and synthesis of data, and report preparation for storm water pollution prevention plans at two major open pit copper mining sites in central Arizona.

## **REPRESENTATIVE PROJECTS**

**Asbestos Surveys/Project Monitoring** - Ms. Alford has conducted over 150 projects over the last 5 years, for clients including Arizona Department of Transportation, Pardee Homes, Wells Fargo Bank, Nevada State Bank, Great Basin Bank, Goleta Bank, East West Bank, Elko County Schools, Eureka County Schools, Elko General Hospital, and numerous other clients.

**Phase I/II ESA's** – Ms. Alford has conducted over 200 projects over the last 5 years, for clients including Pardee Homes, Maracay Homes, Wells Fargo Bank, Nevada State Bank, Great Basin Bank, Goleta Bank, East West Bank, and numerous other clients. She is fully up to date on current ASTM PESA and AAI standards.

**Water System and Wellhead Protection** clients include: City of Carlin, Nevada, Community of Lamoille, Nevada, Lamoille Valley Plaza, Community of Oasis, Shoshone Creek Estates, Eureka, Devil's Gate (Eureka County), Spring Creek Utilities and the City of Elko, Nevada.

**Power Engineers, Inc. – Apex, Nevada** – CIC Duties, Desert Tortoise monitoring during power plant/transmission line construction.

**Maggie Creek Ranch Wetlands Delineation, Elko, Nevada** - Ms. Alford performed an evaluation of a wetlands design for a 15-acre waterfowl habitat.

**Nevada Bell Red Peak Fiber Optic Line, Reno, Nevada** - Ms. Alford conducted an environmental assessment and plant & plant survey.

**Canyon Resources Reward Gold Mine (proposed), Beatty, Nevada** - Ms. Alford performed a Biological Assessment to be included with the EA for the proposed gold mine.

**Glamis Gold/Bullfrog Mine, Beatty, Nevada** - Ms. Alford performed an environmental assessment and biological inventory for mine reclamation.

**South Fork Reservoir Bridge, Elko County** - Ms. Alford conducted wetlands delineation for a 250-acre area, developing mitigation stages and 404 permitting.

**State Farm Insurance, Nevada** - Ms. Alford conducted indoor microbiological evaluations for mold/fungi at numerous residential locations throughout northeastern Nevada.

**Valley Electric Association** - Threatened & endangered species investigation and mitigation for a 150-mile long power line. Work included field surveys, desert tortoise monitoring, and revegetation evaluation.

**Elko County School District** - Ms. Alford conducted asbestos and/or indoor microbiological evaluations for mold/fungi at ECSD's 65,000 sq. foot, 3 story Central Administration Facility, Wells High School Athletic Complex, Jackpot Combined School, Owyhee Combined School, Spring Creek Elementary, Elko High School, Southside Elementary, Grammar #2 Elementary, and West Wendover Elementary, Middle and High Schools. A bat removal and waste mitigation project was also conducted at Owyhee Combined School.

**Former Indoor Shooting Range, Elko, Nevada** – Ms. Alford conducted preliminary inspection sampling, mitigation requirements recommendations, and closure sampling following abatement for conversion of the facility to a radiology laboratory.

**Various Potable Domestic Wells, Lamoille Valley Plaza Water System, Nevada** - Water quality sampling and evaluations.



# Shirlee Rhodes

## Senior Hydrogeologist

### **EDUCATION**

University of Arizona – MS, Hydrology 1993

Wichita State University – BS, Geology 1988

### **REGISTRATIONS/CERTIFICATIONS**

Registered Geologist – AZ - # 47523

Tank Service Provider-Decommissioning Certification, 1997

40-Hour OSHA Health & Safety Certification (29 CFR 1910.120), 1994

8-Hour OSHA Site Supervisor's Certification, 1998

### **SPECIALIZED TRAINING**

Hazardous Waste Operations and Emergency Response (HAZWOPER) 40-Hour Training

Arizona Department of Transportation (ADOT) Hydrology Manual (HEC-1) Training Seminar, 1994

Artificial Recharge of Ground Water, course offered by the National Ground Water Association, 2003

Beacon Leadership Development seminar, April 2006

### **MEMBERSHIPS, AFFILIATIONS AND HONORS**

Association for Women Geoscientists (past President, Arizona Chapter, 1992-1993)

American Geophysical Union

Arizona Hydrological Society

### **EXPERIENCE**

Currently a Senior Hydrogeologist, Shirlee has more than 15 years of professional experience in water resources and the environmental engineering industry. Her experience includes municipal water planning, hydrogeologic investigations for the development of groundwater supplies and the implementation of groundwater recharge projects, as well as aquifer pump testing and interpretation. Ms. Rhodes' responsibilities include working closely with municipal clients to prepare Capital Improvement and Master Water Planning budgets. She has conducted the assessment and remediation of a variety of motor fuel petroleum products, polychlorinated biphenyls (PCBs), toxic metals, and asbestos-containing materials (ACMs), and managed the assessment and decommissioning of a dual septic system at a gasoline product-dispensing convenience store. Ms. Rhodes has conducted extensive research into the hydrologic properties of welded tuffs as they relate to the disposal of high-level radioactive waste materials.

### **REPRESENTATIVE PROJECTS**

Senior Hydrogeologist on a team of geologists and water resource specialists conducting extensive hydrogeophysical studies in the Little Chino Sub-basin to support an Analysis of Assured Water Supply demonstration for a proposed master-planned community on the former Bond Ranch. Data from the study of the complex hydrogeologic system has been cited in several agency reports posted on the Department of Water Resources website.

Senior Hydrogeologist developing a *Water Resources Master Plan* and implementation recommendations for expanding water system capacity and to identify and secure water supply sources to meet build-out conditions for a small, rapidly growing municipality.

Senior Hydrogeologist providing project management, coordination and oversight for development of a regional, dual basin, three-dimensional groundwater flow model for a municipal client.

Senior Hydrogeologist representing a municipal client impacted by a Superfund (National Priority) Site, providing technical oversight of groundwater investigation and remediation efforts through meetings with the EPA, state regulatory agencies and several other stakeholders.

Senior Hydrogeologist providing project management and oversight for a regional groundwater flow model and permitting to meet regulatory requirements for a Reclaimed Water Spreading Basin Recharge facility for a municipal client.

Senior Hydrogeologist for water conservation and irrigation district for well siting analysis, drilling specifications and production well drilling and construction oversight. Provided project management for production well installation, including well design, and geologic/hydrologic interpretation of subsurface lithologies and groundwater conditions.

Senior Hydrogeologist providing general water resource services to municipal clients, both rural communities and within the Phoenix Active Management Area, including water resources development, Annual Water Withdrawal reporting, Designations of Assured Water Supply, and groundwater rights and credits inventories.

Project Manager for peer review of groundwater budget for Arizona Department of Water Resources' Pinal Active Management Area groundwater model. Conducted oversight and document review, meetings with ADWR and AMA staff, and presentation for local advisory committee.

Senior Hydrogeologist assisting a small, rapidly growing municipality, coordinating with Public Works, Planning and Zoning and City Manager personnel and a team of consultants to develop a 25-year Capital Improvement Plan for water supplies and water and wastewater infrastructure.

Senior Hydrogeologist for Public Works Department for well siting analysis, preparation of drilling technical specifications and bid documents for municipal production wells. Provided project management for municipal production well installation, including well design, and geologic/hydrologic interpretation of subsurface lithologies and groundwater conditions.

Aquifer Protection Permit (APP) compliance issues, including groundwater monitoring, abandonment / installation of monitor wells and reporting for a municipal Wastewater Treatment Facility and a Soil Aquifer Treatment Facility that recharges treated effluent.

Project Hydrogeologist for school district production well installation, including interpretation of test results and well design, and coordination with subcontractors regarding well equipping and wellhead treatment.

Senior Hydrogeologist for the permitting under Arizona Law of a large-scale Colorado River water recharge facility. Work included permit preparation and preliminary design of the facility and groundwater monitor wells and piezometers. The project required a hydrologic report that includes a detailed assessment of the hydrogeologic conditions of the area and modeling of the potential impact to groundwater.

Senior Hydrogeologist for investigations of water supplies for residential developments. These projects include a detailed assessment of the proposed development with respect to the requirements of the appropriate Active Management Area, including modeling of the potential impact. Prepares applications to meet Arizona regulatory requirements for water planning for urban development (Adequate or Assured Water Supply and membership to the Central Arizona Groundwater Replenishment District).

Project Geologist and subsequently as Project Manager for site characterization assessments at motor fuel-dispensing convenience stores throughout Arizona over a 2-year period. At any one time was responsible for planning and implementing soil and / or groundwater contamination assessments at six to 10 sites, frequently interacting with regulatory agencies. Of more than 75 sites, approximately half have received regulatory closure or are pending closure. Plume characterization activities are in progress at approximately 15 sites, and another 15 to 20 sites are undergoing site remediation or are scheduled for remediation.

Project Geologist for preliminary site characterization assessments at 28 active gasoline service stations in the metropolitan Tucson and Phoenix areas of Arizona. Each project entailed drilling and soil sampling of five or six 40-foot borings and analytical testing for motor fuel indicator chemicals. All fieldwork was completed over a 6-week period.

Project Hydrogeologist for gasoline-impacted aquifer sites in northeastern Arizona and Las Vegas, Nevada. Conducted step-drawdown and 24-hour constant discharge aquifer pumping tests at each site. Interpreted the results using various curve-matching techniques and prepared final reports for each. The water-bearing zones of interest included semi-confined and leaky confined aquifers in fractured caliches, alluvial deposits, and sandstones.

Project Manager responsible for the assessment and remediation of a potentially motor fuel-impacted septic system adjacent to a city thoroughfare in Phoenix, Arizona. Required extensive and intensive negotiations and coordination with affected landowners, their legal advisors, concerned city engineering and water department employees, and client's representatives. Ultimately, the septic system was abandoned-in-place and a new sanitary sewer line connected to the city system.

Project Geologist during the assessment of PCBs, organochlorine pesticides, and toxic heavy metals at a former metals and plastics recycling yard in Chandler, Arizona. The facility had included a transformer scrapping yard, a metals recycling facility, and fiberglass and plastics processing areas. Devised and implemented a three-dimensional soil sampling grid pattern and collected soil samples at depths ranging from surface to 15 feet. Over 100 soil borings were advanced over a 2-month period, with roughly 55 of these borings being concentrated within the single acre of the 3.5-acre site where the transformer scrapping had occurred.

Research Scientist over a 3-year period conducting state-of-the-art assessment of the hydraulic characteristics of a welded tuff formation in Globe, Arizona. The chosen welded tuff was very similar to the proposed high-level radioactive waste repository rock at Yucca Mountain, Nevada. The research program was performed under the auspices of the U.S. Department of Energy (DOE) and the Nuclear Regulatory Commission (NRC). Actual work involved the measurement of unsaturated hydraulic flow parameters, air permeability, and thermal conductivity of a highly-impermeable massive rock formation. The data has since been employed successfully to test the experimental models that describe unsaturated flow and transport properties of fractured formations with the characteristics of welded tuff.

## **Publications**

Rhodes, S., L.G. Wilson, T. Rasmussen, and R. Bassett, "Moisture Characteristic Curves for Apache Leap Tuff: Temperature Effects and Hysteresis". USNRC NUREG/CR- 6458, Washington, D.C., 1996.

Rasmussen, Todd and Shirlee Rhodes, "Energy-Related Methods: Psychrometers". In: *Handbook of Vadose Zone Characterization & Monitoring*, L.G. Wilson, Lorne G. Everett, Stephen J. Cullen (eds.), CRC Press Boca Raton, Florida, 1995.

Rasmussen, T., S. Rhodes, S. Neuman, A. Guzman, and T. Nicholson, "Apache Leap Tuff INTRAVAL Experiments: Results and Lessons Learned". USNRC NUREG/CR-6096, 54p., Washington, D.C., 1996.



**Merry Ellen Boom, R.S.**  
**Project Air Quality Specialist**

**EDUCATION**

M.S. in Technology, International Environmental and Emergency Management, Arizona State University Polytechnic, (Thesis Pending)

B.S., Agribusiness, Arizona State University, 1989

**REGISTRATIONS/CERTIFICATIONS**

Certified Maricopa County Dust Control Coordinator

Certified Maricopa County Dust Control Trainer

State of Arizona Registered Sanitarian #784

EPA Method 9 Visible Emissions Evaluator

OSHA 40-Hour Hazardous Materials

OSHA 30-Hour Construction Safety

St. Croix Sensory Inc. Odorous Emissions

**SPECIALIZED TRAINING**

ASTM Environmental Site Assessments Phase I/II Training Course

California Environmental Protection Agency Air Resources Board Uniform Air Quality Training Program 100 and 200 Level Series (CARB)

California Environmental Protection Agency Air Resources Board Stationary Source Division, Course #325 Enforcement of NSR/PSD Requirements (CARB)

Orientation to Indoor Air Quality, United States Environmental Protection Agency Region IX, Radiation and Indoor Air Programs Branch

Arizona Radiation Regulatory Agency, Palo Verde Nuclear Generating Station Radiological Emergency Assistance Team (REAT)

**EXPERIENCE**

Ms. Boom is currently providing technical expertise on air quality, dust control and indoor air quality issues for the Converse Four Corners Region. As Project Air Quality Specialist, Ms. Boom is responsible for client relations and technical expertise regarding air quality issues. She has extensive regulatory experience both at the State and County levels and her background encompasses many facets of environmental work. As a Chemist analyzing water, wastewater, hazardous waste, soils, and air, she was responsible for preparation of samples, preserving chain of custody, and maintaining intricate instrumentation. Occasionally she would accompany field sampling teams to assure quality standards and perform field tests. She then transitioned from lab to field activities to assess health risks from exposure to lead, pesticides and hazardous chemicals, as well as to examine indoor air quality issues.

As an air quality regulatory field investigator she responded to and resolved citizen's complaints, inspected sources for compliance, and monitored activities during high risk weather events. She has participated in regulation and policy development and regularly provided positive feedback and creative input in solving individual citizen concerns, industry inquiries, Air Quality department matters and community issues. She has supervised staff, coordinated projects, provided training and efficiently and decisively achieves solutions.

Rounding out her regulatory experience as an enforcement official she was instrumental in providing amicable resolution, professional service, and education to air quality violators. Ms. Boom considers education and response to be the foundation of superior customer service. Her goal is to promote the understanding of regulatory policies and processes while doing whatever it takes to get the job done with exceptional quality.

## **REPRESENTATIVE PROJECTS**

**City of Goodyear, Goodyear, Arizona** - Ms. Boom is currently providing records research and assessment regarding land slated for a future City construction project. She is compiling the documentation, summarizing the details, conducting a site survey, and reporting any potential air quality issues that may affect future users of the project.

**Confidential Large Residential Developer, Maricopa County, Arizona** – Ms. Boom is currently providing dust control, SWPPP, and educational training to one of Arizona's largest residential developers. She is assisting with negotiations for reductions in fines for notices of potential violations of dust control regulations (Rule 310, PM10), training personnel with relation to dust regulations, and assisting with development of a web-based training program.

**Los Angeles Unified School District, Los Angeles, California** – Ms. Boom assisted with an air quality health risk assessment project that tried to identify potential air pollution sources that might impact the health of students and faculty attending a school to be built on the premises of an existing building located in an industrial area. She conducted on site investigations and assessments including photographic documentation as well as neighborhood interviews with residents and businesses. She also researched and reviewed documentation relating to environmental regulatory information.

**Lead Based Candy and Toy Investigation, Phoenix, Arizona** – Ms. Boom was part of a risk assessment team for the State of Arizona that investigated, sampled, and discovered the unusual source for lead poisoning in children. Imported candies with lead containing wrappers and toys made with plastics containing lead were eventually recalled by a Federal agency.

**Penn Racquet Sports, Phoenix, Arizona** – Ms. Boom was part of an emergency risk assessment field team that responded to a chemical release. She was responsible for interviewing residents in the immediate area that may have been affected by the release and categorizing their symptoms. She also assisted in compiling and organizing the data to formulate a report presented to State and Federal agencies concerning the situation.

**Yuma Agricultural Workers Training, Yuma County, Arizona** – Ms. Boom provided training to agricultural workers concerning exposure to pesticide use and the health risks associated with improper handling. Due to the increased influx of workers during harvest periods, a higher priority is placed on education to prevent and reduce worker injury.

**Camp Tontozona Water Sampling, Payson, Arizona** – Ms. Boom assisted in the sampling of water resources surrounding Camp Tontozona prior to the arrival of the Arizona State University Football Team for training camp. The survey was conducted to provide ongoing monitoring data for Federal and State reporting as well as water quality assurance for fulltime community residents in light of the increased demand during football training camp.

**Arizona Department of Transportation Freeway Construction Dust Control, Maricopa County, Arizona** – Ms. Boom acted as a County Air Quality liaison with State and local agencies, as well as construction contractors involved with construction of several Phoenix area freeways. She was responsible for responding to citizen's complaints regarding fugitive dust, providing training to contractors regarding Dust Control Regulations, and inspection of dust generating activities to prevent air quality issues.



## **Marilyn D. Moots, C.E.T. Industrial Hygienist**

### **EDUCATION**

B. A. Biology 1982, University of Colorado, Boulder

### **CERTIFICATIONS**

40 hour OSHA Hazardous Waste Operations and current 8 hour update  
8 hour OSHA Hazardous Waste Operations Supervisor  
24 hour RCRA Training  
60 hour Project Management  
40 hour EPA Air Surveillance of Hazardous Materials  
24 hour Basic Concepts and Response to Chemical and Biological Terrorism  
17 hour Industrial Appraisal  
AHERA Certified Contractor Supervisor  
AHERA Certified Building Inspector  
Certified Environmental Trainer, No. 92-941

### **ASSOCIATIONS AND AFFILIATIONS**

American Chemical Society  
Arizona Chapter American Industrial Hygiene Association  
National Safety Council  
National Environmental Training Association

### **EXPERIENCE**

With Converse since 2008, Marilyn provides Industrial Hygiene services from the Phoenix, Arizona office. She provides project management, coordination and scheduling, client interaction for IH services, lead, asbestos and mold, and occupational health and safety services. She specializes in environmental training and indoor air quality evaluations.

#### **Recent Projects:**

Arizona Department of Administration – State Complex Tucson, Arizona - Indoor air quality investigation and mold evaluation. Epidemiological study of health complaints and correlation to monitoring and analytical data. Work completed included air sampling with direct reading instruments, microbial sample collection to include: swabs, bulk and air, data interpretation, report and presentation to building occupants

Arizona Department of Administration – State Health Laboratory Phoenix Arizona – Noise survey, personnel air monitoring in analytical laboratories for specific chemical contaminants, evaluation of new analytical method with new chemical use and safety, and emergency response to oxygen deficient atmosphere alarm in compressed gas storage room. Additionally, performed in depth environmental assessment of former laboratory facility to determine efficacy of industrial decontamination and asbestos abatement activities prior to renovation for office re-occupancy. Work included: review of asbestos inspections, determining air sampling methods and analytical procedures, direct reading equipment use for building air quality, noise dosimeter placement, data correlation, respirator fit testing of personnel report preparation and corrective actions with regard to data collected.

Arizona Department of Administration – Department of Corrections facilities State-wide – Confined Space evaluation, program development and training class development and implementation. Work included Assessment of confined spaces at facilities, classification of confined spaces, and development of training program, presentation of training to include on-site emergency and rescue procedures.

ETC Compliance Solutions. Senior Instructor and Safety Consultant. Responsible for conducting RCRA, Hazwoper, Confined Space training classes and safety audits.

Applied EnviroSolutions Inc. Provided indoor air quality evaluations, mold assessments and Phase I Site Assessments. Additional duties included contract research and preparation of proposals.

Town of Gilbert. Gilbert, Arizona; Environmental & Safety Compliance Coordinator. Responsible for Tier II Reporting; ensuring compliance with CAA and SDWA permit conditions; safety compliance and training; job hazard analysis; site investigations; sampling and analysis; responding to citizen complaints and concerns; and public outreach. Consultation of regulations, rules, standards and policies to make appropriate recommendations and ensure compliance with EPA, OSHA, NFPA and DOT.

Arizona Department of Administration; Phoenix, Arizona; Risk Management, Loss Prevention Industrial Hygienist. Provided comprehensive health and safety audits for assigned State Agencies. Conducted indoor air quality and mold evaluations; air monitoring for specific and unknown chemical hazards, noise surveys and job hazard analysis. Responsible for final report preparation and valid assessment of real or potential workplace health hazards. Performed asbestos project oversight for response to accidental fiber releases, inspections, and abatement activities. Provided industrial hygiene consultation and program development. Conducted training classes for respirator fit testing, confined space, asbestos awareness, hazard communication and blood borne pathogens. Respond to emergency situations or releases, complaints and calls for odors, chemical spills or employee exposure to hazardous materials or situations.

Aerotech Environmental Laboratories; Phoenix, Arizona; Industrial Hygiene Project Manager and Branch Safety Officer. Responsible for client contact and new client development, method development, price quotations, preparation of final analytical reports and project management. Provide consulting services for clients regarding sampling and analytical procedures, media and methods. Responsible for sample log-in, tracking of analyses within the laboratory, insure on-time delivery of reports, equipment maintenance, calibration, tracking, and media and sampling kit preparation. As Branch Safety Officer responsible for implementation and continuing compliance of Corporate Safety Program, integration of safety procedures into laboratory SOP, maintaining safety training files, new employee orientation and Hazard Communication Training. Conduct daily safety inspections; monthly safety audits; job hazard analysis during method development to address specific chemical hazards and ensure appropriate engineering controls were implemented and appropriate PPE use. Also conducted quarterly safety meetings, monthly safety meetings, accident or incident investigation and compilation of safety reports and databases including OSHA 300 reporting.

Associated International Consultants (AIC); Arizona and Colorado. Principal, Industrial Hygienist. Responsible for preparation of health and safety plans; conducted OSHA, DOT and EPA training classes; industrial and environmental assessments; environmental compliance and safety audits; consultant for emergency response services for hazardous materials or hazardous waste spills, and methamphetamine laboratory cleanup; supervision and management of underground storage tank removal projects; project supervision for site remediation, asbestos abatement, microbial and industrial decontamination projects; work plan development and project management; industrial hygiene services; IAQ and IH investigations; hazardous waste disposal; and Phase I, II, and III Environmental Site Assessments. Senior instructor on training contract for the US Coast Guard for RCRA, DOT, OSHA, PPP and OPA training.

Operational Technologies Corporation; Williams AFB, Arizona; Senior Environmental Engineer. As Senior Environmental Engineer responsible for development and presentation of RCRA, DOT and OSHA training programs including but not limited to hazardous waste, hazardous materials, chemical hygiene, hazard communication, PPE, confined spaces, asbestos, construction safety. Provided oversight for, profiling, manifesting, disposal and tracking of hazardous waste; updating Base Commander regarding occupational and environmental exposure compliance; training, transportation, and health and safety issues. Assisted with Base Closure Plan. Responsible for ensuring FFCA, AFCEE, DOD, TSCA, RCRA, CAA, SDWA, OSHA, NEPA and DOT compliance. Developed and supervised the pesticide burial site excavation and cleanup and underground storage tank removals and site remediation.

RESNA Industries, Inc. (formerly Exceltech, Inc.); Phoenix, Arizona; Corporate Health and Safety Manager. Reported directly to the President and developed and performed oversight and administration of the health and safety program and employee training for an environmental consulting firm, fixed facility laboratory and mobile laboratory operations. Developed, delivered and tracked all county, state and federal OSHA, EPA and DOT required programs and training. Ensured ongoing compliance at all offices with construction and general industry standards. Responsible for development oversight for health and safety programs and compliance on large contracts or federal government projects. Performed or provided oversight for accident investigations and safety inspections for offices and work sites; reviewed insurance audits and workers compensation claims and performed final review of accident/incident/illness/injury investigations. Responsible for the design and tracking of employee medical surveillance programs, employee exposure monitoring and environmental monitoring and implemented changes as necessary. Developed and implemented the following programs and policies: Chemical Hygiene; Corporate Safety and Health Program and Standard Operating Procedures; Drug Free Workplace; AIDs in the Workplace; Americans with Disabilities Act; OSHA Ergonomics. Also continued emergency response responsibilities as outlined below.

Exceltech Inc.; Phoenix, Arizona, Manager of Assessments, Compliance and Training Department and Safety Officer. As Manager of ACT was responsible for work orders, work plan development, budgets, proposals, project management and profitability for the department. Conducted or provided oversight of industrial assessments; industrial hygiene and IAQ investigations; OSHA, EPA and NFPA compliance audits and reporting for various industrial producers, manufacturers, and distributors; schools, offices, state and federal government agencies. Responsible for project development and management of all Phase I, II III, and IV Environmental Site Assessments and Remedial Action Plans; development and implementation of Closure and Contingency Plans; permit applications and compliance monitoring (NPDES, SPCC, RCRA, CAA, NFPA). Developed work plans and site safety plans and managed underground storage tank removals; air, soil and groundwater sampling and analysis; asbestos inspections and abatement project management; hazardous waste disposal; and site remediation. As Safety Officer responsible for employee training (OSHA, RCRA and DOT) and medical monitoring, preparation of health and safety plans for all regional projects, and employee and subcontractor safety. Performed emergency response duties to include response plan, site and employee monitoring, PPE selection, site safety, remediation and supervision for hazardous materials and hazardous waste spills; non-hazardous materials or waste disposal; methamphetamine laboratory and murder scene cleanup. Presented environmental and occupational safety and seminars to private industry, state, federal, and World Bank Officials.

SRH Associates, Inc.; Portland, Oregon; Industrial Hygienist/Environmental Scientist and Safety Officer. As Environmental Scientist was responsible for analytical quality control; IAQ and IH investigations; SPCC plan preparation, Phase I and II Environmental Site Assessments; permit application including RCRA Part B, NPDES, and CERCLA Closure permits and compliance; emergency response and remediation; air quality monitoring; industrial hygiene services; methamphetamine laboratory investigation and cleanup; asbestos inspections; employee and environmental exposure monitoring; and project management. As Safety Officer was responsible for OSHA, RCRA and DOT training, employee and subcontractor safety and health monitoring, and preparation of all health and safety plans. Presented papers for SARA Title III and Hazard Communication compliance for the pesticide, electroplating, petroleum and wood products industries. Worked with state and federal regulators and industry manufacturing and distribution clients regarding non-compliance issues or notices of violations.

AccuLabs Research, Inc. (formerly Camp Dresser and McKee); Wheat Ridge, Colorado; Laboratory Technician and Safety Officer. As laboratory technician performed inorganic and bacteriological analysis of water, wastewater, soil and waste using titration, colorimetric, gravimetric, specific electrode and chromatography methods. Assisted in developing analytical methods and calibrated and maintained instruments. As Safety Officer, developed and implemented Employee Health and Safety Training and Hazardous Waste Minimization and Disposal Programs. Responsible for disposal of hazardous waste generated by laboratory analysis. Responsible for Ion Chromatography and Microbial Analysis Departments.



**James L. Werle, P.E., C.H.G.**  
**Chief Geologist**

**EDUCATION**

M.S., Geology, Eastern Washington University, 1983  
B.S., Geology, University of Washington, 1979

**REGISTRATIONS/CERTIFICATIONS**

State of Arizona, Registered Geologist, 24905  
State of Nevada, Professional Engineer (Geological), 015177  
State of Nevada, Certified Environmental Manager, 1097  
State of Nevada, Professional Geologist, NRS 514.005  
State of Nevada, Licensed Drilling Contractor, 0048947  
State of California, Registered Geologist, 4455  
State of California, Certified Engineering Geologist, 1797  
State of California, Certified Hydrogeologist, HG 132  
State of Idaho, Professional Geologist, 868  
State of Oregon, Certified Engineering Geologist, E1635

**MEMBERSHIPS**

Association of Engineering Geologists (Past Chairman – Southwest Region)  
National Water Well Association  
Nevada Water Resources Association  
Geological Society of Nevada  
Nevada Earthquake Safety Council

**EXPERIENCE**

As a Principal at Converse and Chief Geologist, Mr. Werle is responsible for geological, geophysical, and hydrogeologic studies and providing support for a wide range of environmental and geotechnical investigations. General duties include investigative management and resolution of a wide range of geology related problems for public and private projects in Nevada, California, Idaho, Utah, New Mexico and Arizona. For such major projects as detention dams, tunnels, reservoirs, pipelines, bridges, evaporation ponds, power plants and high-rise structures, he has performed detailed geologic investigations and report preparation. Geophysical services have included investigations using ground-penetrating radar, seismic refraction, vibration monitoring, resistivity, and gravity. Hydrogeologic experience has included wastewater disposal systems, petroleum releases into soil and groundwater and water resources development including well siting, design, and construction management.

**REPRESENTATIVE PROJECTS**

**GEOLOGIC/SEISMIC HAZARDS**

**SOUTHWEST GAS/PAIUTE PIPELINE: ACTIVE FAULT CROSSING STUDIES - NATURAL GAS PIPELINES**  
- *Clark County, Elko and Lyon Counties, Nevada*; In conjunction with EA's for FERC applications, performed paleoseismic studies to investigate possible active faults and to determine the potential fault hazard and maximum surface displacement for intrastate pipelines. Employed aerial photo interpretation to locate lineaments crossing the alignments, field reconnaissance and trenching to evaluate each lineament as possible faults and determination of activity of faulting.

**CITY OF NORTH LAS VEGAS: FISSURE HAZARDS STUDY - RESIDENTIAL SUBDIVISION - *North Las Vegas, Nevada***; Investigation of the 240-unit Windsor Park subdivision which has seen extensive damage to

homes due to earth fissuring from land subsidence due to groundwater withdrawal. Principal-in-Charge of extensive geologic and geotechnical investigations in the attempt to delineate the nature of the distress and damage at the site. Studies included geologic literature review, geologic reconnaissance, fissure mapping, subsurface borings, test pits and 4,000 linear feet of trenching, detailed mapping of distress and damage to homes and infrastructure, review of survey data, detailed soil mechanics laboratory testing, engineering and risk analysis, preparation of reports and maps.

STATE FARM, ALLSTATE AND FARMERS INSURANCE COMPANIES: RESIDENTIAL EARTHQUAKE DAMAGE ASSESSMENTS AND INVESTIGATIONS - *Los Angeles, California*; Directed over 50 geologic assessments, evaluations and investigations of residential structures and properties damaged by the January 17, 1994 (M.6.7) Northridge earthquake. Services included damage assessment, investigation of earthquake-induced ground and slope failures and providing repair recommendations.

PECHANGA DEVELOPMENT CORPORATION: SEISMIC HAZARD INVESTIGATION AND GEOTECHNICAL INVESTIGATION – PECHANGA HOTEL AND CASINO- *Temecula, CA*; As Principal-in-Charge, provided engineering geologic support for a geotechnical investigation for a proposed 14 story, 500 room hotel, convention center and casino for the Pechanga Indian Reservation. Evaluated potential seismic hazards including fault rupture, liquefaction and ground failure, as well as severe ground shaking. Assisted with the analyses of constraints for site development and recommendations for seismic mitigation.

### GEOMECHANICS

SOUTHERN NEVADA WATER AUTHORITY - RIVER MOUNTAINS TUNNEL NO. 2 - *Clark County, Nevada*, Principal Geologist for geologic and geotechnical design investigations for the new River Mountains Tunnel near Las Vegas, Nevada. The tunnel was 4 miles in length with a 12 foot inside diameter, lined and used for water transmission. It was bored in hard rock with a tunnel boring machine (TBM). Included were three segments of drill and blast tunnels totaling 860 feet in length. Studies included geologic reconnaissance, seismic refraction surveys, continuous core borings to over 500 feet in depth, downhole geophysics, detailed rock mechanics laboratory testing, engineering analysis, preparation of tunnel specifications (GDR and GDSR reports).

MOLYCORP, INC.: INSTALLATION OF DAM PIEZOMETERS - MOUNTAIN PASS MINE - *Mountain Pass, California*; Project Manager for the installation of numerous piezometers in the tailings dam at the mine. Piezometers were used in evaluation of the seismic stability of the dam by others for California Dam Safety. Oversaw subsurface borings, piezometer construction, laboratory testing program, and report preparation.

CLEAN WATER COALITION: ALTERNATE DISCHARGE INVESTIGATION (in progress) – *Clark County, Nevada*; For the major municipal wastewater dischargers in Las Vegas, Principal-in-Charge for evaluating the geotechnical feasibility of several wastewater discharge pipeline route alternatives. For years treated effluent has been discharged to Las Vegas Wash and subsequently into Lake Mead approximately miles north of the potable water intake for the Las Vegas Valley. Concerns over water quality have renewed interest in relocating the discharge outfall elsewhere in Lake Mead or downstream in the Colorado River. For this project, reviewing existing geologic, hydrogeologic, geotechnical, and water quality information for the purpose of preparing reconnaissance level geotechnical maps for evaluating potential fatal flaws of each pipeline route. Route alternatives include tunnels (up to 7 miles in length) and deep-water outfalls.

CLEAN WATER COALITION: PROPOSED IN-VALLEY EFFLUENT INTERCEPTOR (in progress) – *Clark County, Nevada*; The proposed interceptor will collect discharge from three wastewater treatment plants — the City of Las Vegas, Clark County Sanitation District, and City of Henderson — and convey it to a discharge point in the Las Vegas Wash above Lake Las Vegas. The interceptor will consist of a large diameter pipeline up to 9 miles in length. Approximately a quarter to a third of the project will be constructed through tunneling methods under Las Vegas Wash. Converse Consultants has completed a preliminary geotechnical and dewatering investigation for the proposed in-valley effluent interceptor.

The purposes of the preliminary investigation was to determine the general subsurface conditions along the proposed interceptor alignment to compare the anticipated construction conditions along alternative routes from a geotechnical and dewatering perspective and provide input for planning purposes and cost estimates. Emphasis was in identifying "fatal flaws" in the proposed routing and construction schemes from a hydrogeological (dewatering) and geotechnical constraints standpoint.

For the tunneling portion of the investigation, the purpose of the work was to develop an evaluation of alternative alignments for the project that may involve subsurface construction. This included developing alternate construction methods (excavation and ground support) and construction costs along with an evaluation of risks associated with each alignment and each method.

NEVADA DEPARTMENT OF TRANSPORTATION: RANCHO DRIVE/ANN ROAD AND U.S. 95 INTERCHANGE - *Las Vegas, Nevada*. The U.S. 95 interchange project consisted of two bridge structures, access ramps, roadways, a shallow concrete lined channel with box culverts, a soundwall and a retaining wall. Project Geology Manager/Responsible for administering duties to staff for conducting geologic services for project. Services included geologic reference search, field geologic reconnaissance (including mapping of surface soils and geologic features such as faults, subsidence features, or areas of instability, which could have an impact on the project), fault and fissure trenching and preparation of the discussion of the findings from the geologic studies. Provided technical review of the project report and maps.

SOUTHERN NEVADA WATER AUTHORITY: GEOTECHNICAL INVESTIGATION - OZONE TREATMENT PLANT - *Boulder City, Nevada*; Principal Geologist for geologic and geotechnical design investigations for the proposed Ozone Treatment Plant at the Alfred Merritt Smith Water Treatment Facility near Boulder City, Nevada. The plant will be the world's largest once built and will use the ozonation process to disinfect water from Lake Mead. Studies have included geologic reconnaissance, field exploration, seismic refraction, soils laboratory and engineering analysis.

NEVADA DEPARTMENT OF TRANSPORTATION: GEOTECHNICAL INVESTIGATION – I-215 AND I-515 INTERCHANGE (in progress) – *Henderson, Nevada*; A geotechnical investigation is being performed for the design of the bridges, retaining walls and pavement sections. Providing management of geologic support for project. Services to include or have included geologic reference search, field geologic reconnaissance (including mapping of surface soils and geologic features such as faults, subsidence features, or areas of instability, which could have an impact on the project), and preparation of the discussion of the findings from the geologic studies.

CLARK COUNTY REGIONAL FLOOD CONTROL: GEOLOGIC/GEOTECHNICAL INVESTIGATIONS - KYLE CANYON FLOOD DETENTION BASIN - *Clark County, Nevada*; The project consisted of an 8,000-foot long, 60-foot high earthen embankment and reservoir, with a diversion dike, spillway, outlet structure and associated discharge channels. Directed subsurface investigations, geologic mapping, geologic hazards evaluation, infiltration tests to evaluate dam seepage, borrow source material evaluation and assisted in report preparation.

CITY OF HENDERSON: GEOTECHNICAL INVESTIGATION - RIVER MOUNTAINS R-9 RESERVOIRS - *Henderson, Nevada*; Performed subsurface exploration for two proposed 3-million gallon water storage reservoirs. Conducted geologic mapping of bedrock conditions for excavability, natural and cut slope stability and foundation design.

COLORADO RIVER COMMISSION: GEOTECHNICAL INVESTIGATION/ CONSTRUCTION OBSERVATION LAS VEGAS WASH UNDERCROSSING TUNNEL - *Clark County, Nevada*; Project Geologist for geotechnical studies and construction observations for a 1,300 foot long, 150 foot deep, siphon tunnel for a 90-inch water lateral crossing Las Vegas Wash near Las Vegas, Nevada. Studies included geologic reconnaissance, soil borings to 200 feet in depth, aquifer testing for determining dewatering parameters, in-situ pressuremeter and packer tests, detailed soil mechanics laboratory testing and engineering analysis. Soft ground tunneling methods (shield) were used during construction. Performed geologic logging during tunnel excavation and provided technical assistance in construction arbitration proceedings at end of project.

CLARK COUNTY COMPREHENSIVE PLANNING: GEOLOGIC RECONNAISSANCE - LAS VEGAS WASH EROSION CONTROL PROGRAM - *Clark County, Nevada*; Directed geologic and geotechnical constraints mapping based on literature review, previous studies and field reconnaissance for 6 miles of Las Vegas Wash for siting of check dam structures to mitigate headcut erosion and establishment of wetlands.

UNITED ENGINEERS: GEOTECHNICAL INVESTIGATIONS - COGENERATION PLANTS - *Clark County, Nevada*; Principal Geologist for geologic and geotechnical investigations for 3 cogeneration plants in Clark County. Sites included Georgia Pacific/Apex, Pabco Gypsum and North Las Vegas. Services included geologic reference search, field geologic reconnaissance (including mapping of surface soils and geologic features such as faults, subsidence features, or areas of instability, which could have an impact on the project), and preparation of the discussion of the findings from the geologic studies. Performed seismic refraction studies for excavability (caliche), and radar and electromagnetic surveys for detection of voids foundation materials (gypsum).

HARRAH'S: COLORADO RIVER BRIDGE *Laughlin, Nevada and Bullhead City, Arizona* – Geotechnical and Geologic/Seismic Earthquake Engineering Investigations were performed for a proposed 700 foot long, 40 foot wide (2-lane) and 25 foot high multi-span bridge over the Colorado River between Nevada and Arizona. Geotechnical investigation included field explorations at the abutment locations, laboratory testing, engineering analysis and preliminary recommendations for the design and construction of foundations. The geologic/seismic investigation was to develop reasonable geotechnical seismic design criteria for the bridge. Involved literature review, evaluation of local site geology, determining seismic characteristics of local faults, evaluation of statistical seismicity, determination of maximum credible earthquake, selection of possible design level earthquakes, determination of ground response spectra and evaluation of secondary geologic hazards and seismic effects.

HSST: GEOTECHNICAL INVESTIGATIONS - HIGH SPEED ELEVATED TRAIN - *Las Vegas, Nevada*; Project coordinator for the subsurface exploration and sampling for a proposed elevated train which was to run along the Union Pacific RR tracks from downtown to the middle of the Las Vegas Strip.

CLARK COUNTY PUBLIC WORKS: LAS VEGAS SOUTHERN BELTWAY, SEGMENT 3A AND 4, *Clark County, Nevada*. The Southern Segment of the Las Vegas/Southern Beltway is located between Windmill Lane and Eastern Avenue and approximately 3.4 miles of 4-lane freeway from Green Valley Parkway along Lake Mead Drive to the Union Pacific Railroad crossing. The project consisted of several limited access roadway and bridges Project Geology Manager/Responsible for administering duties to staff for conducting geologic services for project. Services included geologic reference search, field geologic reconnaissance (including mapping of surface soils and geologic features such as faults, subsidence features, or areas of instability, which could have an impact on the project), and preparation of the discussion of the findings from the geologic studies. Provided technical review of the project report and maps.

SOUTHERN NEVADA WATER AUTHORITY: 170-A LAS VEGAS WASH PIPELINE CROSSING NO. 2 (in progress) - *Clark County, Nevada*. Principal Geologist for geologic and geotechnical design investigations for the second Las Vegas Wash Pipeline Crossing near Las Vegas, Nevada. Alternatives considered include a tunnel, a grade control structure or a bridge. Services included geologic reference search, field geologic reconnaissance (including mapping of surface soils and geologic features such as faults or areas of instability, which could have an impact on the project), oversight of seismic tomography survey by subconsultant, continuous core borings to 200 feet in depth, detailed rock mechanics laboratory testing, engineering analysis, and preparation of the discussion of the findings from the geologic studies.

NEVADA POWER COMPANY: GEOTECHNICAL INVESTIGATIONS - EVAPORATION PONDS - REID GARDNER POWER PLANT - *Moapa, Nevada*; Project geologist for geotechnical investigations for new evaporation ponds and repair of existing ponds. Conducted subsurface explorations, piezometer installation and soil and groundwater sampling. Performed borrow source investigations consisting of field reconnaissance and laboratory testing for dike materials including embankment fill and clay core.



**Jason M. Dixon, P.E.**  
**Principal Engineer**

## **EDUCATION**

M.S., Civil Engineering, 1999/University of Nevada, Las Vegas  
B.S., Civil Engineering, 1997/Ohio Northern University, Ada, Ohio

## **REGISTRATIONS/CERTIFICATIONS**

P.E. (Arizona) #41696  
P.E. (Nevada) #015553  
P.E. (Utah) #5050437  
P.E. (New Mexico) #17523  
Certified Water Rights Surveyor (Nevada) #1147  
OSHA 40-hour HAZWOPER

## **SKILLS**

### Computer/Modeling:

- Groundwater models: Visual MODFLOW, FLOWPATH II, BIOPLUME III, AquiferTest
- Variably saturated flow models: HYDRUS 2-D, SHAW, HELP
- Surface water/Hydraulic models: HEC I, HEC-HMS, HEC-RAS, PondPack, WaterCAD, StormCad, FlowMaster, CulvertMaster
- Geotechnical/Soils software: GeoPro, SB-Slope, UTEXAS, AFSED, RWEQ, RUSLE
- Web design

### Monitoring and geophysical equipment:

- Heat Dissipation Probes, TDR100, In-Situ miniTroll, Troll 4000, various groundwater pumps and flowmeters
- Proficient in Soil Measurement Systems Tension Disc Infiltrometer and Rainfall Simulator, proficient in calculations for determining in-situ and laboratory soil hydraulic properties
- Proficient in the use of seismic refraction equipment

## **EXPERIENCE**

### **GEOTECHNICAL PROJECTS**

**N-Tunnel Muck Pile Slope Stability (for Major Engineering Company), Nevada Test Site, Nye County, Nevada** – As Engineer, Mr. Dixon Performed all slope stability calculations to determine safe operation distances from slope edge for drilling operations, and prepared report.

**CAM 10 Detention Basin (City of Las Vegas), Ann Road, West of Las Vegas Beltway, Clark County, Nevada** – As Senior Staff Engineer for this project, Mr. Dixon performed seismic refraction survey and performed data analysis to determine rock depth and density for removal recommendations during construction for a mostly below ground detention basin and also an approximately one mile long diversion dike. The project included recommendations for an earth embankment up to 15 feet high, outlet pipe, soil cement and reinforced concrete, mix design trials, and evaluation of aggregate suitability.

**Various Soil Investigations, Clark County, Nevada** - As Project Engineer, Mr. Dixon has worked on various projects involving geotechnical analysis of soil conditions. Project responsibilities have included:

closure cover wind/water soil erosion analyses; determination of slope stability with dynamic loading; seismic refraction surveys; and soil logging and identification.

### **CONSTRUCTION PROJECTS**

**Mercury Highway Resurfacing (for Major Engineering Company), Nevada Test Site, Nye County, Nevada** - As Engineer for this project, Mr. Dixon performed all hydrologic analyses to determine peak design flow rates, performed capacity analysis on existing channel and culvert structures, designed all new hydraulic structures along the roadway for the design of a new road surface (approximately 40 miles) for the existing Mercury Highway. The design included a complete upgrade of all hydraulic structures.

**U3ax/bl Closure Cover Monitoring System Design and Construction, Las Vegas, Nevada** – As technical lead for a mixed-waste closure cover monitoring project, Mr. Dixon's responsibilities included: developed conceptual design and construction plans for monitoring system; performed unsaturated soil modeling efforts; performed site characterization work for Radioactive Waste Management Site watershed and channel characterization research projects; and performed all soil physics and hydraulic property lab analysis for various Environmental Restoration and Site Characterization projects. Mr. Dixon was also project liaison between Construction and Engineering Departments during construction.

**N-Tunnel Muck Pile Slope Stability (for Major Engineering Company), Nevada Test Site, Nye County, Nevada** – As Engineer, Mr. Dixon Performed all slope stability calculations to determine safe operation distances from slope edge for drilling operations, and prepared report.

**US Rt 35 Roadway/Bridge Construction (Ohio Department of Transportation), Chillicothe, Ohio** – Mr. Dixon served as Co-op Engineer on this project, and performed quality control for the Ohio Department of Transportation, which included concrete and subgrade inspection/testing material quantity and construction dimension verification for construction of 15 miles of 4-lane roadway and bridges for extension of US Rt. 35; work included subgrade/pavement construction, drainage construction, new bridge decks, parapet walls, abutments, and approach slabs.

### **WATER RESOURCES (GROUNDWATER and SURFACE WATER HYDROLOGY)**

**Groundwater Resource Evaluation – Eureka County, Nevada** – Mr. Dixon developed an extensive interactive website to function as an inventory and database for water resources of 16 groundwater basins within Eureka County. The database was based on Mr. Dixon's assistance in performing exhaustive literature research, development of water budgets, basin yield estimations, water rights surveys, and well inventories. Work also included contact with regulatory authorities, and determination of current water use trends within each basin.

**Orange County Sanitation District Headworks Project, Orange County, California** – Mr. Dixon's responsibilities for this project included aquifer test and pumping well design for to determine aquifer parameters for dewatering analysis. Conducted all aquifer test monitoring and analysis. Provided dewatering design recommendations for temporary construction dewatering.

**Howard E. Hollingsworth Elementary (Clark County School District), 1776 East Ogden Avenue, Las Vegas, Nevada** - As Project Manager for this ongoing project, Mr. Dixon helped develop construction dewatering strategies for contaminated groundwater conditions at the site, including aquifer characterization. Performed all hydraulic calculations for design of pumping and treatment system. Designed leachfield for long-term subdrain water disposal for a geotechnical investigation, material testing, environmental site investigation, risk-based analysis and design of temporary and long-term dewatering strategies for the construction of a new elementary school.



## **D. Vance Smith** **Regional Construction Manager**

### **EDUCATION**

Prima Community College Electronics  
US Navy Propulsion Engineering  
University of Wisconsin – Public Works Inspection

### **EXPERIENCE**

Mr. Smith has over 18 years of experience in Construction Inspection and has been responsible for managing a staff of over 85 technical personnel. As Vice President/Regional Construction Manager, his duties would include investigations for material failures, budget management, supervision of materials testing in both the field and laboratory, review of all inspections, development of concrete mix designs, final reports and direct supervisor of all project managers. Mr. Smith has assumed project management duties on projects ranging from flood control channels, detention basins, outfalls, collectors, pipelines, box culverts, streets, highways, bridges, pipelines, utilities, commercial buildings, industrial structures, and residential developments.

### **REPRESENTATIVE PROJECTS**

**Hoover Dam Bypass, Nevada Approach, Clark County, Nevada** – Project Manager for the materials testing and inspection services on this project, which consists of over 1 million cubic yards of embankment, six concrete bridge structures and 17 miles of asphalt concrete pavement. Scope of services includes materials testing and inspection on soils, concrete and asphalt, as well as the development and implementation of the QA/QC plan. As Project Manager, Mr. Smith was instrumental in the selection and management of the QC/QA team. Duties included overall management of field technicians and laboratory technicians, development of the QC/QA Plan, compilation of monthly quality control (QC) reports, pay requests, site meetings, and problem solving.

**San Martin Hospital, Warm Springs Road and Durango Drive, Las Vegas, Nevada** – Senior Project Manager for the QA materials testing and inspection services on this 346,000 sq ft hospital with a five-story structural steel shell with light weight concrete decks, spread footings with over 4,000 cubic yards of concrete, and 25,000 square feet of structural masonry. As Senior Project Manager, Mr. Smith was instrumental in the selection and management of the QA team. Duties included overall management of five field technicians and three laboratory technicians, compilation of monthly quality assurance (QA) reports, pay requests, site meetings, and problem solving.

**LVVWD 3665 and 3435 Zone Pumping Station, Las Vegas, Nevada** – Project Manager for the QA materials testing and inspection services on this project which consists of construction of an ultimate 24.9 MGD capacity pumping station with a total dynamic head of 246 FT proved by six equally-sized 4,333 gpm constant speed pumping units. Included are a pump building, overhead bridge crane, surge arrestor assembly, pumps, appurtenant piping, metering and control valves, electrical and telemetry equipment, generator assembly, sumps, HVAC equipment, restroom facilities, site work, off-site pipelines and other ancillary work. The 3435 Zone Pumping Station modifications work consists of removal of two 4,000 gpm pumping units, removal of 16" flowmeter, removal of 6" bypass piping, removal and relocation to the 3665 Zone Pumping Station site of the existing standby generator set, installation of two 9,600gpm pumping units with electrical equipment, and installation of 30" flowmeter at the existing 3435 zone Pumping station adjacent to the 3205 Zone Reservoir. As Project Manager, Mr. Smith was instrumental in the selection and management of the QA team. Duties included overall management of five field technicians

and two laboratory technicians, compilation of monthly quality assurance (QA) reports, pay requests, site meetings, and problem solving.

**Flamingo Wash, Mojave Road to Interstate 515, Las Vegas, Nevada** – Project Manager for the QC and materials testing services on this project which consists of constructing approximately 2,300 ft of 70 foot wide rectangular reinforced concrete open channel system, constructing approximately 2,000 ft of a center pier within the channel, constructing a rip-rap channel transition the existing, unlined channel, and constructing an asphalt maintenance access road. The project also includes approximately 1200 ft of sanitary sewer system comprised of pipe ranging in size from 8" PVC to 30" HDPE pipe, storm drain laterals ranging in size from 18' to 48" RCP and construction of a 12 ft by 70 ft simple span pedestrian bridge structure. As Project Manager, Mr. Smith was instrumental in the selection and management of the QC team. Duties included overall management of field technicians and laboratory technicians, compilation of monthly quality control (QC) reports, pay requests, site meetings, and problem solving.

**Henderson Executive Airport Terminal Building, Tower and Apron, Henderson, Nevada** – Senior Project Manager for the QA materials testing and inspection services on this project, which consists of a two story Terminal Building approximately 22,835 SF and an Airport Traffic Control Tower approximately 76 ft tall. Apron work includes North Ramp Extension approximately 33,000 SY which will generally be located north of Taxiway "F" and west of Taxiway "B", Transient Aircraft Apron approximately 85,000 SY, self service aircraft fuel island, new connecting taxiway, terminal loop roadway and vehicular parking approximately 30,000 SY, airport entrance road approximately 500 LF, air traffic control tower site work and utilities including water, sewer, storm drain and site lighting. As Senior Project Manager, Mr. Smith is conducting supervision of 7 field technicians and 5 laboratory technicians. He also supervises and performs observations and testing of construction elements which included special grading, asphalt pavement, structural concrete, reinforcing steel, structural masonry, fireproofing and epoxy anchors.

**NDOT/NHP/ Fast Facility Las Vegas, Nevada** – As Project Manager, Mr. Smith conducted supervision of 3 field and 3 laboratory technicians. Supervised and performed observations and testing of construction elements that included special grading, structural concrete, reinforcing steel, structural masonry, spray applied fireproofing, and epoxy anchors. Governing entities included NDOT, Nevada Highway Patrol, Clark County Building Department, Fire Department, Public Works. Conducted project close out.

**BLM Aggregate Study, Las Vegas, Nevada** – As Principal Construction Manager, Mr. Smith developed and implemented a three phase testing program to compare the Concrete Aggregates in the Las Vegas Valley Quarries. Comparisons were conducted for the economics and durability of 7 aggregate pits. Received accommodation letter from BLM.

**Northern Beltway, Frehner Construction /CCPW, Clark County, Nevada** - As Senior Project Manager, Mr. Smith was instrumental in the selection and management of the QC team. Duties included overall management of 5 field technicians and 2 laboratory technicians, compilation of monthly Quality Control (QC) reports, pay requests, site meetings, and problem solving.

**Concrete Mix Designs, Las Vegas, Nevada** – As Principal Construction Manager, Mr. Smith supervises, develops, and manages over 250 concrete mix designs for various projects/clients including LVVWD.

**Concrete Mix Designs, Phoenix, Arizona** – As Principal Construction Manager, Mr. Smith supervises, develops, and manages over 30 concrete mix designs for American Metro Mix.

**North Shore Drive, Lake Mead National Park** - As Project Manager, Mr. Smith conducted supervision of 7 field and 3 laboratory technicians. Developed QC/QA plan for Federal Highway Administration, performed observation and testing of structural fill, structural concrete, trench backfill, riprap installation, and AC pavement.

**Lake Shore Drive, Lake Mead National Park** - As Project Manager, Mr. Smith conducted supervision of 4 field and 3 laboratory technicians. Developed QC/QA plan for Federal Highway Administration, managed and performed observation and testing of structural fill, structural concrete, trench backfill, riprap installation, and AC pavement.

**Fire Station #43, #44, #45, Las Vegas, Nevada** – As Project Manager, Mr. Smith conducted supervision of 4 field and 3 laboratory technicians. Supervised and performed observations and testing of construction elements that included special grading, structural concrete, reinforcing steel, structural masonry, spray applied fireproofing, and epoxy anchors. Conducted project close out.

**Doolittle Community Center, Las Vegas, Nevada** - As Project Manager, Mr. Smith conducted supervision of 2 field and 3 laboratory technicians. Supervised and performed observations and testing of construction elements that included special grading, structural concrete, reinforcing steel, structural masonry, spray applied fireproofing, and epoxy anchors. Conducted project close out.

**Las Vegas Motor Speedway, Clark, County, Nevada** - As Field Manager, Mr. Smith conducted supervision of 9 field technicians. Supervised and performed observations and testing of construction elements for 3-high speed tracks, stadium seating, 9 masonry structures a total of 27 permits, which included special grading, structural concrete, reinforcing steel, structural masonry, spray applied fireproofing, AC pavement and epoxy anchors. Conducted project close out.

**Primadona Convention Center/Parking Garage, Primm Nevada** – As Field Manager, Mr. Smith conducted supervision of 7 field technicians. Supervised and performed observations and testing of construction elements for the one story convention center and a five story cast-in-place concrete parking garage, which included special grading, structural concrete, reinforcing steel, post-tensioned cables, structural masonry, AC pavement and epoxy anchors. Conducted project close out.

# Louis H. Knight, Ph.D., C.H.G.

## Chief Geologist

### **Education**

Ph.D. Geology, University of Arizona, 1969.  
M.S. Geology, University of Arizona, 1967  
B.S. Geology, Michigan State University, 1965

### **Registration**

Registered Geologist, Arizona #25064  
Registered Geologist, California #5093  
Certified Engineering Geologist, CA #1697  
Certified Environmental Manager, NV #EM-1239

### **Memberships**

Society for Mining, Metallurgy and Exploration  
Nevada Water Resources Association  
Association of Engineering Geologists  
National Water Well Association  
Nevada Mining Association

### **Professional Responsibilities**

**CONVERSE CONSULTANTS (Since 1990)** As Principal Geologist and Manager of Regulatory Compliance Department work - includes hydrogeologic evaluations for mine and industrial sites, mine permitting, geologic hazard evaluations, RCRA facility assessments, groundwater monitoring for RCRA waste facility closures, EA/EIS for power generation facilities and pipelines, and endangered species investigations.

### **Selected Project Experience**

**HYDROGEOLOGIC CHARACTERIZATION FOR MAJOR ARIZONA MINESITE - Yavapai County, Arizona;** Project manager for groundwater characterization of an active 40,000 acre open pit copper mine in Arizona needed to support an Arizona Aquifer Protection Permit. The project involved hydrogeologic mapping, installation of numerous groundwater monitoring wells, aquifer testing, preparation of a quality assurance plan and sampling/analysis plan, water quality determination, extensive mine waste investigation, groundwater contaminant transport modeling and evaluation of control technology for prevention of groundwater quality degradation.

**ENVIRONMENTAL CONDITIONS ASSESSMENT AT FORMER PESTICIDE MANUFACTURING PLANTSITE - Henderson, Nevada;** Project manager for a comprehensive environmental conditions assessment at the site of a former chlorinated hydrocarbon pesticide manufacturing site in southern Nevada. The project was mandated under a consent decree from the Nevada Division of Environmental Protection. It involved an extensive review of manufacturing and waste handling practices that were employed over the more than 40 year operating history of the

facility, including investigation of groundwater and soil contamination, and closure of the RCRA facilities.

**HYDROGEOLOGIC CHARACTERIZATION FOR RAILROAD LOADING FACILITY - Yavapai County, Arizona;** Administered groundwater characterization at a railroad loading facility that has a long history of storage of copper, lead and zinc sulfide mineral concentrates. The project involved hydrogeologic mapping, installation of four groundwater monitoring wells, aquifer testing, preparation of a quality assurance plan and sampling and analysis plan, water quality determination, waste investigation, groundwater contaminant transport modeling and evaluation of control technology for prevention of groundwater quality degradation.

**HYDROGEOLOGIC DESIGN - RAPID INFILTRATION BASINS - Nevada, California and Arizona;** Hydrogeologic investigations to evaluate the feasibility of using rapid infiltration basins for wastewater disposal.

### **Prior Experience**

**HECLA MINING COMPANY, St. George, Utah (1988 to 1989).** Unit Manager, Apex Germanium/Gallium Mine. Responsible for managing a \$12 million redevelopment and rehabilitation of Apex Mine and processing plant including identification and remediation of environmental waste problems. Managed feasibility study, budget preparation and control, and staff hiring and direction of 40 people.

**HECLA MINING COMPANY, Broomfield, Colorado (1981 to 1988).** Exploration Manager. Managed mineral exploration for precious and high-tech metals in Southwestern U.S.



**Richard Pugliese**  
IT / GIS Administrator

## **REGISTRATIONS/CERTIFICATIONS**

Microsoft Certified Professional

## **TRAINING/SKILLS**

Autodesk Land Development Desktop 3  
Autodesk Map 5  
Autodesk On-Site  
ArcView GIS

## **EXPERIENCE**

Mr. Pugliese has extensive experience in Network systems integration. Virtual Private Networks, Database Development, GIS and Mapping. Richard has been addressing client GIS and database integration needs for over a decade, and has been with Converse for 8 years.

## **REPRESENTATIVE PROJECTS**

**County Assessment and 911 Integration, Armstrong County, Pennsylvania** – Integration of assessment database, TIGER files, aerial and dwelling photos with Arc/View. Data sets included mineral deposits, gas, and water wells.

**Liquefaction Study, Clark County, Nevada** – Developed maps using Land Development, Autodesk Map and ArcView software for Database Integration.

**Electronic Delivery System, San Diego, California** – Query Data Analysis Development of Online ordering and electronic delivery of site information including US Government CFRs.

**Eureka County Water Plan Basin Study, Eureka County, Nevada** – Developed maps using Land Development Desktop, Arc GIS, Integration of USGS Models, Digital Elevation Models and Digital Line Graphs using databases from the Nevada Division of Water Resources and Geo Thermal Well Data to create an interactive delivery system with hyperlinked databases/documents.



# Stoney Mather, P.E.

## Project Engineer

### EDUCATION

M.S., Geotechnical Engineering, Utah State University, Logan Utah, 1999-2003 (Graduated Cum Laude)  
B.S., Civil Engineering, Utah State University, Logan Utah, (Graduated Cum Laude May 2002)  
A.S., Snow College, Ephraim, Utah, 1993-1995

### REGISTRATIONS/CERTIFICATIONS

State of Nevada, Civil Engineer, #017576

### EXPERIENCE

#### **Engineering Research / Lab Assistant**

- Conducted undergraduate soil mechanics laboratory sessions.
- Instructed students on proper lab techniques and operation of lab equipment.
- Evaluated reports, corrected assignments, and documented student achievements.
- Surveyed rock-fall hazards on Utah highways for hazard prioritization and mitigation.
- Formulated database and spreadsheet to compare and organize research data.
- Presented research results to clients and peers in oral and written forms.

#### **Engineering Intern**

- Inspected construction projects to ensure compliance with specifications in contracts.
- Prepared daily reports and graphical representations of contractor's weekly progress.
- Quantified completed work for use in progress payments to contractors.
- Monitored stone column placement, sewer installation, MSEW, and airfield construction.
- Audited contractor weigh-station reports for cut and fill projects.

### REPRESENTATIVE PROJECTS

**LVVWD, Meranto 2975 Zone Reservoir, Clark County, Nevada** – Mr. Mather served as Staff Engineer on the geotechnical investigation for this project which consists of design and construction of a buried 20-million gallon reinforced concrete reservoir and associated yard piping, valve vaults, and disinfection and electrical/control building to be located on a 20-acre site on the south side of Meranto Avenue, about 330 feet west of Hualapai Way. The project will also provide for a future pumping station. Half-street improvements will also be constructed including Meranto Avenue and Hualapai Way. The reservoir basin will have sloping sides and a flat bottom. A soil covered concrete roof will be supported by columns, which in turn will be supported by conventional spread footings integral with the floor slab. The pumping station building will likely consist of masonry and steel-frame construction with a conventional slab-on-grade floor and spread footing foundation system or a mat-type foundation at a depth of up to 30 or 40 feet below grade. As staff engineer Mr. Mather supervised the subsurface exploration program, including directing field personnel, determination of bulk and driven sample depths, and determination of the shear wave velocity profile for the location.

**Western Beltway, Detention Basins and Flood Control Channels, Clark County, Nevada** - Converse conducted a geotechnical investigation for the detention basin phase of this project which included field explorations, laboratory testing, engineering analysis and report preparation. The project consists of 2 detention basins and flood control channels, plus balancing and outfall pipes or box culverts, to temporarily store stormwater runoff and discharge it in a controlled manner. The south detention basin will measure 1,200 ft wide by 1,300 ft long, covering 36 acres. The north detention basin will measure 600 ft

wide by 1,200 ft long, covering 17 acres. The east side of both basins will consist of the embankment formed by the ramps for the west side of the Lone Mountain Road Interchange. The maximum height of the embankment is about 18 ft above the downstream grade for the depressed beltway. Both detention basin's appurtenant structures will include an overflow spillway consisting of a concrete weir, and slope paving. Two collector channels will also be constructed. As Staff Engineer, Mr. Mather coordinated utility clearance, traffic control, and permitting requirements. Coordinated and supervised the field exploration program and logged borings. Assisted in developing the laboratory testing program for field samples. Provided recommendations for slope stability and settlement estimates. Prepared geotechnical report under the supervision of the Professional Engineer.

**Russell Road Widening, from the Las Vegas Beltway to Rainbow Boulevard, Clark County, Nevada** - Converse performed a geotechnical investigation for the proposed improvement of Russell Road between the Las Vegas Beltway and Rainbow Boulevard which consists of be widening and/or reconstructing to facilitate construction of a 100-foot right-of-way arterial road. The project will include a storm drain line in the vicinity of the intersection with Tenaya Way, and also some type of culvert to conduct floodwaters under Russell Road east of Durango Drive, so general pipeline recommendations were provided. Since the borings were specified to be 10 to 15 feet deep near the proposed pipelines, the pipeline recommendations will be for future pipelines within the upper 15 feet of the site. The project also includes the ½ mile long Buffalo Box Culvert from Russell Road north along Buffalo Drive to Hacienda Avenue. As Staff Engineer, Mr. Mather coordinated utility clearance, traffic control, and permitting requirements. Coordinated and supervised the field exploration program. Assisted in developing the laboratory testing program for samples collected in the field.

**Liberty at Paradise, Henderson, Nevada** – Mr. Mather serves as Staff Engineer for this ongoing work. Mr. Mather performs grading observation and field density testing for the pad subgrade placement for the residential development. Mr. Mather also prepares pad certification letters for the graded lots.

**Wal-Mart Supercenter #95149, Las Vegas, Nevada** – Mr. Mather served as Staff Engineer on a geotechnical investigation for a proposed Wal-Mart Supercenter and parking lot. Mr. Mather's duties included supervision of the subsurface exploration program, which included determination of driven and bulk sample depths, and the determination of the shear wave velocity profile for the location.

**Village 19 Substation, Clark County, Nevada** – Mr. Mather served as Staff Engineer on a geotechnical investigation for a proposed substation. Mr. Mather's duties included supervision of the subsurface investigation, including determination of driven and bulk sample depths, resistivity testing, and pressuremeter testing, assigning the laboratory testing program, analysis of the data collected in the field and laboratory programs, determination of design parameters and preparation of the geotechnical report.

**Mountain's Edge South Relocation, Clark County, Nevada** – Mr. Mather served as Staff Engineer on the geotechnical investigation for the proposed relocation of a 69 kV transmission line to be supported by drilled shaft foundations. Mr. Mather's duties included supervision of the subsurface investigation, including direction of field personnel, determination of driven and bulk sample depths, and pressuremeter testing, assigning the laboratory testing program, analysis of the data collected in the field and laboratory programs, determination of design parameters including modulus of deformation and angle of internal friction, and preparation of the geotechnical report.

**Terrazzo II, Henderson, Nevada** – Mr. Mather supervised the subsurface investigation for the proposed residential development, including direction of field personnel and determination of bulk and drive sample depths. Mr. Mather also assigned the laboratory testing program, performed analysis of the data collected in the field and laboratory programs, determined design parameters, and prepared the geotechnical report.



# Martin D. Jensen, P.E.

## Senior Engineer

### EDUCATION

B.S./1997/Civil Engineering, Utah State University, Logan, Utah

M.S./2000/Civil and Environmental Engineering (Geotechnical), Utah State University, Logan, Utah

### REGISTRATIONS/CERTIFICATIONS

State of Arizona, Civil Engineer, #47948

State of Nevada, Civil Engineer, #15673

State of Utah, Civil Engineer, #343803

### MEMBERSHIPS

American Society of Civil Engineers (ASCE)

ASCE Geo-Institute (ASCE-GI)

Tau Beta Pi Engineering Honor Society

### EXPERIENCE

As Project Engineer, Mr. Jensen is responsible for a variety of geotechnical projects, including investigations for bridges, streets, highways, pipelines, utilities, evaporation ponds, commercial buildings, industrial structures, and residential developments. Duties include determining a suitable scope of work, developing and overseeing geotechnical exploration and laboratory testing programs, performing engineering analyses and preparing geotechnical reports.

### REPRESENTATIVE PROJECTS

**Federal Prison Camp Nellis, Dining Hall, Nellis Air Force Base, Clark County, Nevada.** Mr. Jensen served as the Project Manager for the geotechnical investigation for a 28,000 square foot pre-engineered steel building. His duties included directing field and laboratory testing program, developing recommendations for spread footing and retaining walls and preparation of the geotechnical report.

**Spring Valley Hospital, Clark County, Nevada** - Converse conducted a geotechnical investigation for a four-story hospital building founded on drilled shaft foundations. As Senior Staff Engineer, Mr. Jensen conducted the field investigation and directed the laboratory testing program, performed engineering analysis for foundations, developed engineering and grading recommendations and prepared the project's geotechnical report.

**SNWA Alfred Merritt Smith Water Treatment Facility, Chemical Feed Facility and Warehouse Expansion, Clark County, Nevada** – Mr. Jensen served as Staff Engineer on a geotechnical investigation for the addition of a new chemical feed facility and the expansion of two warehouse facilities. Mr. Jensen's duties included direction of field personnel during the subsurface investigation, assigning the laboratory testing program, analysis of the data collected in the field and laboratory program, and preparation of the geotechnical report.

**Poly America Blown Film Industrial Facility, Henderson, Nevada** – As Project Manager for a portion of the geotechnical investigation for the warehouse/manufacturing facility, Mr. Jensen oversaw the field investigation and laboratory testing programs, developed recommendations for drilled shaft foundations, earthwork and grading, and retaining walls and prepared the geotechnical reports for the project.

**McCarran International Airport – Federal Baggage Inspection Areas, Clark County, Nevada -** Converse performed a geotechnical investigation for several one and two-story structural additions to the Terminal 1 and Terminal 2 buildings at McCarran International Airport. Mr. Jensen's duties as Project Manager included coordination with Airport Security and Operations personnel to enable field investigations to be performed within the secured airfield areas with minimal disturbance to airfield operations. Mr. Jensen oversaw and directed the field exploration and laboratory testing programs for the investigation, performed engineering analysis for drilled shaft foundations and conventional spread footings, developed recommendations for demolition and grading, and prepared multiple geotechnical reports for the project.

**Georgia Pacific Apex Beta Mill, Apex/I-15, Clark County, Nevada –**Converse conducted a geotechnical investigation and performed materials testing and inspection of soil, concrete, masonry, and fireproofing. Welding, structural steel and high strength bolting were also conducted. The project consisted of constructing four new buildings with 150,000 sq. ft. total area. The buildings are founded on continuous and spread footings and have structural steel framing. As Staff Engineer, Mr. Jensen performed a review of the plans and specifications and provided recommendations for grading, the placement of footings, and the construction of floor slab. As Project Engineer, Mr. Jensen also conducted a geotechnical investigation for a structural addition to the constructed building. For this portion, Mr. Jensen directed the field investigation, developed foundation recommendations and prepared the geotechnical report.

**Las Vegas Convention Center South Hall Expansion, Clark County, Nevada -** Converse conducted a geotechnical investigation and performed materials testing and inspection of soil, concrete, asphalt, masonry, and fireproofing. Also, inspection of welding, structural steel and high strength bolting was performed. The project consisted of a 1.3 million sq. ft. building with two levels, 6 stories tall. The building is founded on caissons and grade beams and has structural steel framing. As Staff Engineer, Mr. Jensen assisted in supervision of field personnel, review of field and laboratory testing reports, and preparation of the final grading report under the direction of the Principal Geotechnical Engineer.

**Moapa Post Office, Moapa, Nevada –** As Staff Engineer, Mr. Jensen conducted a geotechnical investigation for a new Post Office building. His responsibilities on the project included directing field investigations, including logging soil borings and performing percolation tests, developing the laboratory testing program, performing engineering analysis for bearing capacity of spread footings, developing earthwork recommendations, and preparing the geotechnical reports.

**SNWA Rainbow Gardens Wier W3.5, Las Vegas Wash, Henderson, Nevada –** As Senior Staff Engineer, Mr. Jensen conducted the geotechnical investigation for a roller compacted concrete grade control dam. Mr. Jensen's duties included supervision of field investigations involving collection of soil and rock samples, and performing drilled shaft capacity analysis for deep foundations.

**SNWA 170-B North Valley Lateral, North Las Vegas, Nevada –** Mr. Jensen was Staff Engineer for 37,000 lineal feet of 72-inch diameter transmission pipeline. Mr. Jensen supervised the subsurface exploration program which included determination of driven and bulk sample depths, assigned laboratory tests such as gradation analysis, Atterberg limits, clay swell, consolidation, direct shear, sensitivity tests, solubility and chemical analysis and provided parameters for design and construction.

**LVVWD Contract No. 1085, Centennial 2635- Zone Reservoir Inlet/Outlet Pipeline, Phase I, Las Vegas, Nevada -** Mr. Jensen served as Project Engineer on this project which consisted of the design and construction of approximately 2,550 lineal feet of a 42-inch diameter water transmission pipeline. Scope of services included overseeing a field investigation program consisting of exploratory borings, a field resistivity survey, and a geological review of available literature and a reconnaissance to identify geological hazards; a laboratory investigation program including a suite of chemical corrosivity tests; and engineering analyses to develop design parameters such as allowable bearing pressure, estimated

settlement, coefficient of friction, lateral earth pressures, vertical pipe loads, the modulus of lateral soil reaction for flexible pipe design, and trench backfill criteria.

**Berkley Square Cast Iron Water Main Replacement, Las Vegas, Nevada** – As Staff Engineer, Mr. Jensen was responsible for supervision of subsurface exploration program for the replacement of several thousands of lineal feet of water mains in various residential areas. Supervision included determining depths for driven and bulk samples. Mr. Jensen's responsibility also included assigning laboratory tests such as gradation analysis, Atterberg limits, clay swell, providing design parameters, and preparing a geotechnical report of the findings.

#### **PUBLIC WORKS - ROADWAY/HIGHWAYS, ETC**

**I-215/I-515 Henderson Interchange (Nevada Department of Transportation /Clark County Public Works), Henderson, Nevada** – Converse performed preliminary and design level geotechnical investigations for a system interchange at I-215 and I-515 and a diamond interchange at I-215 and Gibson Road, including 5 new pier supported flyovers, 3 new footing supported bridges, and widening of 3 existing I-515 bridges; MSE, soil nail, tie-back, and cantilever retaining walls; roadway and ramp embankments; sound walls; and drainage structures. As Project Manager for this project, Mr. Jensen was responsible for coordination and supervision of the field exploration program, including utility clearance, traffic control, and permitting requirements. His work included development of the laboratory testing program for field samples. He performed engineering analyses and provide design recommendations for lateral earth pressures for MSE, soil nail, tie back and cantilever retaining walls, ultimate and allowable bearing capacities, and axial and lateral capacities for drilled shaft foundations. Mr. Jensen provides recommendations for earthwork, excavation considerations, and other construction considerations, and preparation of geotechnical reports. Mr. Jensen also directed a full-scale drilled shaft load testing program, including development of the load testing program, field inspection of test shaft construction, oversight of the load testing, and interpretation of the test results.

**Nellis Boulevard Extension, Nellis Boulevard, Hacienda Avenue to Russell Road Clark County Public Works), Clark County, Nevada** – Mr. Jensen serves as Project Engineer for this ongoing work. Converse is performing preliminary and design level geotechnical investigations for the extension of Nellis Boulevard from its current terminus at Marissa Drive over Duck Creek Wash and I-515 to Russell Road. The project includes bridges over Duck Creek and I-515 supported on drilled shaft foundations, retaining walls, and pavement sections. Recommendations for accelerating embankment settlement on soft soils are provided. Mr. Jensen's responsibilities include coordinating utility clearance, traffic control, and permitting requirements, coordination and supervision of the field investigation program, and development of the laboratory testing program for samples collected in the field. He performs engineering analyses and provides design recommendations for lateral earth pressures and bearing capacities for retaining walls and axial and lateral capacities for drilled shaft foundations. Mr. Jensen provides recommendations for earthwork and other construction considerations including accelerating the settlement of embankments on soft soils, and is responsible for the preparation of geotechnical reports.

**Harmon Avenue Extension, Harmon Avenue, From Las Vegas Boulevard to Polaris Avenue Clark County Public Works), Clark County, Nevada** - Converse performed a geotechnical investigation for the extension of Harmon Avenue, from Las Vegas Boulevard to Polaris Avenue, including a 5-span bridge with MSE abutments which extends over a proposed frontage road, I-15 and Industrial Road. As Senior Staff Engineer, Mr. Jensen coordinated utility clearance, traffic control, and permitting requirements. He led the field investigation program, logged borings, and performed engineering analyses and provided design parameters including lateral earth pressures and ultimate and allowable bearing capacities. Mr. Jensen provides recommendations for earthwork, excavation considerations, and other construction considerations, and prepared geotechnical reports under the supervision of the Professional Engineer.



## **Dean Stanphill, P.E.**

### **Senior Vice President**

#### **EDUCATION**

B.S. Civil Engineering, San Diego State University, 1983  
MBA California State University San Bernardino, 1990

#### **MEMBERSHIPS**

American Welding Society  
American Concrete Institute  
Associated General Contractors  
American Institute Architects

#### **EXPERIENCE**

**CONVERSE CONSULTANTS (since 1998).** As the Managing Officer and Principal Engineer, Mr. Stanphill is responsible for the day-to-day operations of the Reno Office of Converse Consultants. His duties include business development, geotechnical engineering, and construction material testing. Other office responsibilities include overall management of environmental evaluations, and remediation, asbestos characterizations and testing, and mold and lead testing. Mr. Stanphill's clients include both private and public institutions, including Washoe County, the City of Reno and the Nevada Department of Transportation. During his career, he has worked on and managed several landfill projects.

#### **REPRESENTATIVE PROJECTS**

**Solano County Nut Tree Airport, Vacaville, California**

Mr. Stanphill provided geotechnical engineering services for the design of the new airport hangers at the Solano County Nut Tree Airport in Vacaville, California. Primary constraints included surficial soils that were found to be highly expansive. As part of our investigation, Converse performed a site reconnaissance of the entire airport to evaluate damage caused by expansive soils in both hanger and pavement areas.

**Jackpot Airport New Runway, Jackpot Nevada**

Mr.; Stanphill is the Geotechnical Engineer of Record of this design level project in Jackpot, Nevada. Specials design consideration was provided for the relatively high altitude of this airport, and the potential for freeze-thaw cycles and their effect on airfield pavements. Other project constraints identified was the relatively poor nature of the on-site soils, including volcanic ash deposits. All work was performed in accordance with Federal Aviation Administration Guidelines. The project was completed in 2004.

**Elko Airport Runway Expansion, Elko, Nevada**

Mr. Stanphill provided geotechnical engineering services for a major expansion of the airport runway in Elko, Nevada. In addition to evaluation soil parameters and the suitability of the on-site soils for select fill requirements, he also provided recommendations for the in-filling of numerous detention ponds on-site. The in-filling of the ponds required dewatering and stabilization of the exposed soils prior to fill placement. All work was performed in accordance with Federal Aviation Administration Guidelines. The work was completed in 2004.

**Proposed Air Traffic Control Tower, Reno Tahoe International Airport, Reno, Nevada**

Mr. Stanphill provided geotechnical services for the proposed new air traffic control tower at Reno Tahoe International Airport in Reno, Nevada. The tower was proposed in a low-lying area of the Truckee Meadows so that the evaluation of high groundwater and the evaluation of seismically-induced liquefaction was a key project consideration. Additionally, surface seismic surveys were performed to evaluate the stratification of the subsurface soil layers and arrive at a site classification for seismic design.

American Society Civil Engineers  
American Public Works Association

#### **CERTIFICATIONS**

Civil Engineer – CA, NV, AZ, CO, NM, PA  
Geotechnical Engineer – California  
Environmental Assessor – California  
Structural Steel and Welding – ICBO  
Fireproofing & Masonry – ICBO  
40-Hour OSHA Training  
Nuclear Density Gauge Certification



**CCRL**  
Cement and Concrete  
Reference Laboratory

[www.ccrl.us](http://www.ccrl.us)

March 12, 2008

Mr. Dan Hogan  
Project Manager  
Converse Consultants  
9831 South 51<sup>st</sup> Street, Suite C112  
Phoenix, Arizona 85044

Subject: Inspection of Concrete Testing Laboratory

Dear Mr. Hogan:

Enclosed is a confirmatory report on Inspection Number H-707, which was completed in your testing laboratory at Phoenix, Arizona, on January 29, 2008, by a representative of the Cement and Concrete Reference Laboratory.

This letter, and the accompanying report, provide written evidence that your laboratory has been inspected during the 33<sup>rd</sup> Inspection Tour.

It is requested that these evidences of the inspection not be used for advertising, publication, or promotional purposes.

Very truly yours,

Peter A. Spellerberg  
Manager, Cement and Concrete Reference Laboratory  
Materials and Construction Research Division  
Building and Fire Research Laboratory

Enclosure

cc: J. Rose  
D. V. Smith

# NUCLEAR TESTING SERVICES

HEREBY CERTIFIES THAT

DEAN E. ALFORD

of

CONVERSE CONSULTANTS

HAS SUCCESSFULLY COMPLETED THE NUCLEAR TESTING SERVICES TRAINING  
COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

Subjects included in this course were as follows:

## RADIOLOGICAL SAFETY

1. Principles and practices of radiation protection.
2. Leak testing procedures.
3. Mathematics and calculations basic to the use and measurement of radioactivity.
4. Biological effects of radiation.
5. Radioactivity measurement standardization and monitoring techniques and instruments.
6. Accident and incident procedures.
7. Procedures for nuclear gauge storage and transportation.
8. General safety precautions.

## GAUGE OPERATION

1. Instrument theory
2. Operating procedures
3. Maintenance
4. Field application
5. Gauge calibration

D.K. Pollock  
INSTRUCTOR

6/10/98

DATE

Dannie K. Pollock

Dust Control Compliance Training  
NOT A COUNTY EMPLOYEE



DEAN  
ALFORD



Expires:  
03/27/11

D-61

Full of Comprehensive Certification



# State of Arizona

State Board of Technical Registration

for

Architects, Assessors, Engineers, Geologists,  
Mining Engineers and Mine Surveyors

**James Daniel Rose**

having exhibited to the Arizona State Board of Technical Registration satisfactory evidence of good moral character and of qualifications and proficiency, is hereby authorized to practice professionally in the State of Arizona and use the title of

**Registered Professional Engineer**

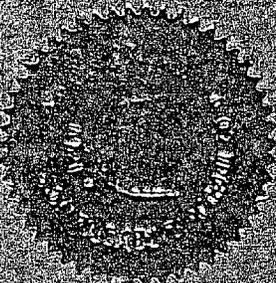
with precedence in

**Civil Engineering**

This license authorized by board's grant registration and issues certificate number 23577, subject to renewal and affixed to seal of this board on 2/1/1909, Arizona 1905, 20th day of September, 1909.

COMMISSIONER OF THE BOARD

*Wm. D. Board*  
Secretary State Board



# INTERNATIONAL CODE COUNCIL

JOSE S OJEDA

*The International Code Council attests that the individual named on this certificate has satisfactorily demonstrated knowledge as required by the International Code Council by successfully completing the prescribed written examination based on codes and standards then in effect, and is hereby issued this certification as:*

**STRUCTURAL MASONRY SPECIAL INSPECTOR**

*given this day of January 8, 2005*

*Frank P. Hodge Jr.*

Frank P. Hodge Jr.

President, ICC Board of Directors

*James L. Witt*

James L. Witt  
ICC Chief Executive Officer

5250011-84  
Certificate Number



# INTERNATIONAL CODE COUNCIL

**JOSE S OJEDA**

*The International Code Council attests that the individual named on this certificate has satisfactorily demonstrated knowledge as required by the International Code Council by successfully completing the prescribed written examination based on codes and standards then in effect, and is hereby issued this certification as:*

**Spray-applied Fireproofing Special Inspector**

Given this day of February 2, 2008

Certificate No. 5250011-86

*Steven Shapiro*

Steven I. Shapiro  
President, Board of Directors

*Richard P. Weiland*

Richard P. Weiland  
Chief Executive Officer



**INTERNATIONAL  
CODE COUNCIL**

This certificate is the property of ICC and must be returned to ICC in the event of suspension or revocation of the certificate.

# American Welding Society



*Certifies that Welding Inspector*  
**Jose S Ojeda**

*has complied with the requirements of Section 6.1  
of the AWS Standard for Qualification and  
Certification of Welding Inspectors QC1-96*

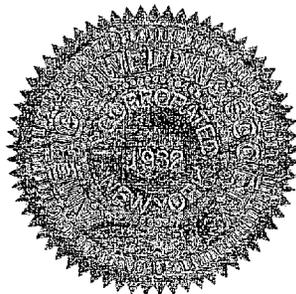
**05090301**

CERTIFICATE NUMBER

**August 2005**

VALID DATE

EMPLOYER: REFER TO WALLET CARD FOR  
VALIDITY AND EXPIRATION DATE



*Damian J. Kotecki*

PRESIDENT AWS

*James F. Lewis*

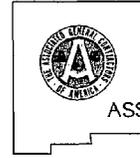
CHAIRMAN QUALIFICATION COMMITTEE

*[Signature]*

CHAIRMAN CERTIFICATION COMMITTEE



U.S. Department  
of Transportation  
Federal Highway  
Administration



ASSOCIATED  
CONTRACTORS  
OF NEW MEXICO

# Certificate of Training

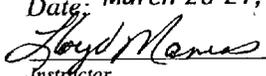
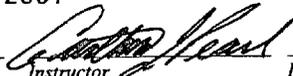
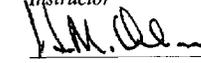
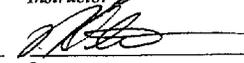
## Jose S. Ojeda

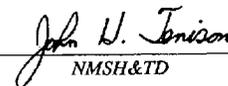
has satisfactorily completed training

### THE USE OF NUCLEAR MOISTURE DENSITY GAUGES

AASHTO: T-238, T-239

Date: March 20-21, 2001

 Instructor	 Instructor	_____	_____
 Instructor	 Instructor	_____	_____

Approved by:   
NMSH&TD

No. 0229

# ARIZONA TECHNICAL INSTITUTE



*This is to certify that*

**JOSE OJEDA**

*has demonstrated knowledge and ability by successfully completing the  
ATI Certification requirements listed below and is hereby recognized as an*

**“ATI Field Technician”**

ARIZ 104 ARIZ 105 ARIZ 225 ARIZ 227  
ARIZ 229 ARIZ 230 ARIZ 232 ARIZ 235 ARIZ 246  
ARIZ 412 ASTM D140 AASHTO T40 AASHTO T217 AASHTO T248

Date: March 26, 2005 Expires: March 2010

ATI Examiner: Leroy Hayduke

# STATE OF ARIZONA



## STATE BOARD OF TECHNICAL REGISTRATION

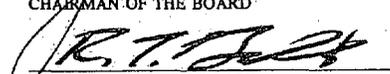
FOR ARCHITECTS, ASSAYERS, ENGINEERS, GEOLOGISTS,  
LANDSCAPE ARCHITECTS AND LAND SURVEYORS

**MATTHEW BRINTON CALLAHAN**

HAVING EXHIBITED TO THE ARIZONA STATE BOARD OF  
TECHNICAL REGISTRATION SATISFACTORY EVIDENCE OF GOOD  
MORAL CHARACTER AND OF QUALIFICATIONS AND PROFICIENCY,  
IS HEREBY AUTHORIZED TO PRACTICE PROFESSIONALLY IN THE  
STATE OF ARIZONA AND USE THE TITLE OF

**REGISTERED GEOLOGIST**

IN WITNESS THEREOF, THE BOARD  
GRANTS REGISTRATION AND ISSUES  
CERTIFICATE NUMBER 32161 SUBJECT  
TO RENEWAL, AND AFFIXES THE SEAL  
OF THIS BOARD AT PHOENIX, ARIZONA  
THIS 22ND DAY OF DECEMBER, 1997.

  
CHAIRMAN OF THE BOARD  
  
SECRETARY OF THE BOARD



# AMERICAN CONCRETE INSTITUTE

*This is to certify that*

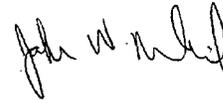
**JEFF B BAER**

*has demonstrated knowledge and ability by  
successfully completing the ACI certification  
requirements and is hereby recognized as an*

**ACI CONCRETE FIELD TESTING TECHNICIAN - GRADE I**

**Certified Date: 8/20/05**

**Expires: 8/20/10**



**Examiner of Record: Mr Alf Wold**

*ACI Managing Director of Certification*

*The Authenticity of this certification can be verified at [www.ACICertification.org/Verify](http://www.ACICertification.org/Verify)*

# ARIZONA TECHNICAL TESTING INSTITUTE



*This is to certify that*

**Jeff Baer**

*has demonstrated knowledge and ability by successfully completing the  
ATTI Certification requirements listed below and is hereby recognized as an*

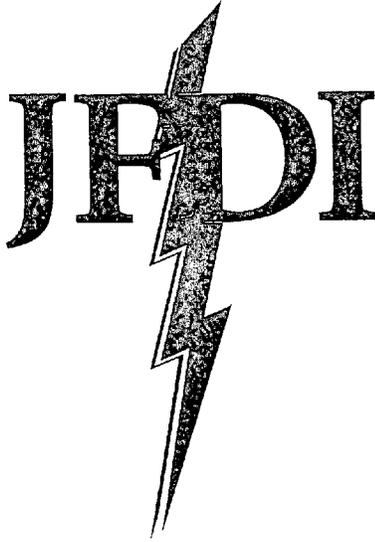
**“ATTI Asphalt Technician”**

ARIZ 247 ARIZ 406 ARIZ 410  
ARIZ 415 AASHTO T-4 AASHTO T166 ARIZ 416 ARIZ 417  
ARIZ 421 ARIZ 424 ARIZ 427 ASTM D140 AZ 104 AASHTO T312

Date: October 14, 2005 Expires: October 2010  
ATTI Examiner: Leroy Hayduke

# Rapport Leadership International

School of Leadership Development



## Certificate of Completion

Presented to

Jeff Baer

This is to certify that through your courage and  
perseverance you have completed

*Leadership Breakthrough I*

1386

Team #

August 22, 2004

Date

Michael W. Shepp

**"LEAD—THE WORLD WILL FOLLOW!"**

# AMERICAN CONCRETE INSTITUTE

*This is to certify that*

**JEFF B BAER**

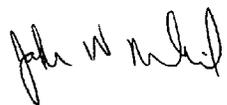
*has demonstrated knowledge and ability by  
successfully completing the ACI certification  
requirements and is hereby recognized as an*

**ACI CONCRETE STRENGTH TESTING TECHNICIAN**

**Certified Date: 5/21/05**

**Expires: 5/21/11**

**Examiner of Record: Mr Bryan R Castles**

  
*ACI Managing Director of Certification*

*The Authenticity of this certification can be verified at [www.ACICertification.org/Verify](http://www.ACICertification.org/Verify)*

# ARIZONA TECHNICAL INSTITUTE



*This is to certify that*

**Jeff Baer**

*has demonstrated knowledge and ability by successfully completing the  
ATI Certification requirements listed below and is hereby recognized as an*

**“ATI Soils/Aggregate Level I Technician”**

ARIZ 105 ARIZ 201 ARIZ 210 ARIZ 211  
ARIZ 212 ARIZ 225 ARIZ 233 ARIZ 236 ARIZ 245  
AASHTO T19 AASHTO T87 AASHTO T89 AASHTO T90  
AASHTO T176 AASHTO T248 AASHTO T255  
AASHTO T265

Date: January 8, 2005 Expires: January 2010

No 13477

# Certificate Of Completion

This is to certify that DAN HOGAN has completed the  
basic training course on Radiation Safety and Use of Nuclear Soil Gauges,  
held this 8TH day of APRIL 19 89, held at AIRPORTER INN  
City of IRVINE State of CALIFORNIA by CPN Corporation.

*Charles Cherry*  
INSTRUCTOR

CHUCK CHERRY

**CPN**<sup>®</sup>  
CORPORATION  
2830 Howe Road  
Martinez, California USA 94553

*William Mancuso*  
RADIATION SAFETY OFFICER

WILLIAM MANCUSO

# Certificate of Completion

This certifies that

**Daniel Hogan**

has successfully completed the

**Radiation Safety Officer Class**

conducted by the training department of

*Troxler Electronic Laboratories, Inc.*



Harvey Dunlevy  
Instructor

9/14/2005  
Date

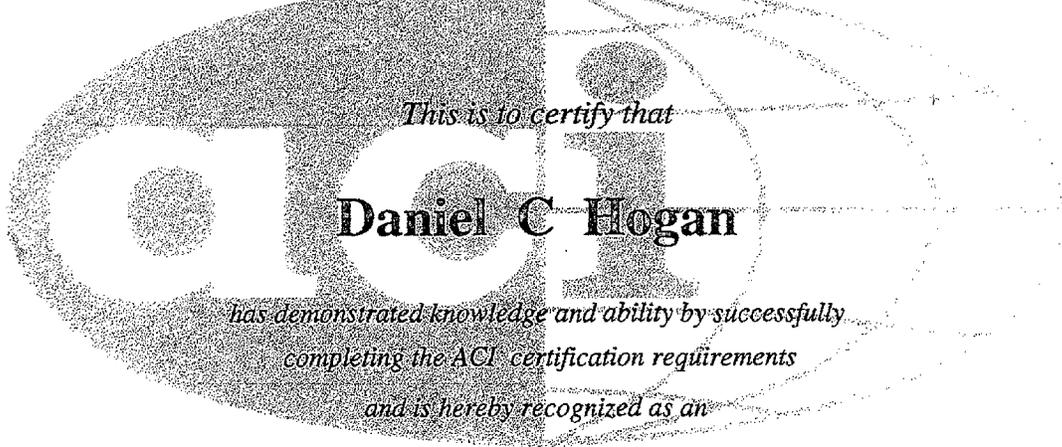
*William F. Troxler, Jr.*  
President



Troxler Electronic Laboratories, Inc.  
PO Box 12057 • 3008 Cornwallis Rd. • Research Triangle Park, NC 27709  
Phone: (919) 549-8661 • Fax: (919) 549-0761 • Web site: [www.troxlerlabs.com](http://www.troxlerlabs.com)

Enrollment ID: 15106

**AMERICAN CONCRETE INSTITUTE**



*This is to certify that*

**Daniel C Hogan**

*has demonstrated knowledge and ability by successfully  
completing the ACI certification requirements  
and is hereby recognized as an*

**ACI Concrete Laboratory Testing Technician - Grade II**

Exam Date: 10/26/2002

Expires: 10/26/2008

**INTERNATIONAL**

Examiner:

*James D. Palmer, P.E.*

# NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES®

HEREBY CERTIFIES THAT

**Daniel C. Hogan**

HAS ATTAINED THE GRADE OF

LEVEL III

IN CONSTRUCTION MATERIALS TESTING  
SOILS

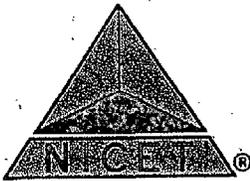
AND RECOGNIZES THAT THROUGH EDUCATION,  
EXPERIENCE, AND KNOWLEDGE THIS PERSON HAS  
MET THE STANDARDS SET FORTH BY THIS INSTITUTE

Certification Valid through May 1, 2008

CERTIFICATION NUMBER 84888



CHAIRMAN OF THE BOARD OF GOVERNORS, NICET



SPONSORED BY THE NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS.

# NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES®

HEREBY CERTIFIES THAT

**Daniel C. Hogan**

HAS ATTAINED THE GRADE OF

LEVEL III

IN CONSTRUCTION MATERIALS TESTING  
CONCRETE

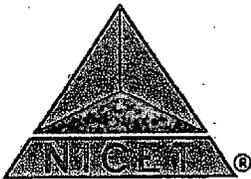
AND RECOGNIZES THAT THROUGH EDUCATION,  
EXPERIENCE, AND KNOWLEDGE THIS PERSON HAS  
MET THE STANDARDS SET FORTH BY THIS INSTITUTE

Certification Valid through May 1, 2008

CERTIFICATION NUMBER 84888



CHAIRMAN OF THE BOARD OF GOVERNORS, NICET



SPONSORED BY THE NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

# NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES®

HEREBY CERTIFIES THAT

**Daniel C. Hogan**

HAS ATTAINED THE GRADE OF

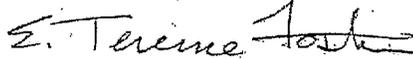
LEVEL III

IN CONSTRUCTION MATERIALS TESTING  
ASPHALT

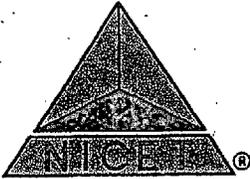
AND RECOGNIZES THAT THROUGH EDUCATION,  
EXPERIENCE, AND KNOWLEDGE THIS PERSON HAS  
MET THE STANDARDS SET FORTH BY THIS INSTITUTE

Certification Valid through May 1, 2008

CERTIFICATION NUMBER 84888



CHAIRMAN OF THE BOARD OF GOVERNORS, NICET



SPONSORED BY THE NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

# HAZMAT Certification

as required by U.S. DOT and IATA

*This certifies that*

**Daniel Hogan**

*has been trained and tested in accordance with the U.S. Department of Transportation and International Air Transport Association (IATA) hazardous material requirements for general awareness/familiarization, function-specific, safety, and security awareness training as related to the transportation of nuclear gauges. A description of the training course materials is available from Troxler Electronic Laboratories, Inc.*

<b>9/14/2005</b>	<b>9/14/2007</b>	<b>9/14/2008</b>	<b>Harvey Dunlevy</b>
<i>Training Date</i>	<i>Expiration per IATA*</i>	<i>Expiration per USDOT*</i>	<i>Instructor</i>

*\* For shipments by air, the IATA expiration date is applicable. For shipments by highway, the USDOT expiration is applicable.*



**Troxler Electronic Laboratories, Inc.**

PO Box 12057 • 3008 Cornwallis Rd. • Research Triangle Park, NC 27709  
Phone: (919) 549-8661 • Fax: (919) 549-0761 • [www.troxlerlabs.com](http://www.troxlerlabs.com)

---

*Certified by*

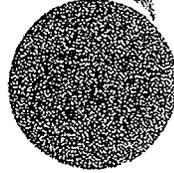
*Company Official:* \_\_\_\_\_  
*Company Name:* \_\_\_\_\_  
*Company Address:* \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*Enrollment ID: 15106*

**Name:**  
Dan . Hogan  
**Address:**  
4343 S. Polaris  
Las Vegas, NV 89103

**Issued Date:**  
01/03/2007  
**Certificate Number:**  
NV 000152

NEVADA AIRCRAFT QUALITY  
**NAQTC**  
TRANSFORMING CONSTRUCTION



Module	Expiration
SD	12-12-2011
AG	12-12-2011
AE	12-12-2011
T 40	10-31-2006
T 104	N/A
T 190	N/A
T 246	N/A
T 283	N/A
C 837	N/A

No. 36257

# Certificate Of Completion

This is to certify that Adam Gordon has completed the  
basic CPN® training course on Radiation Safety and Use of Nuclear Gauges,  
held this 29th day of August 2000 in the  
City of Las Vegas State of NV by CPN International.

CPN International, Inc.  
2830 Howe Road  
Martinez, CA 94553 USA  
Phone: (925) 228-0770  
Fax: (925) 228-3183



*Charles D. Cherry*  
INSTRUCTOR  
*Douglas Carter*  
RADIATION SAFETY OFFICER

# AMERICAN CONCRETE INSTITUTE

*This is to certify that*

## ADAM M GORDON

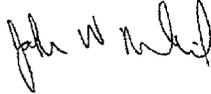
*has demonstrated knowledge and ability by  
successfully completing the ACI certification  
requirements and is hereby recognized as an*

### ACI CONCRETE FIELD TESTING TECHNICIAN - GRADE I

**Certified Date:** 3/18/06

**Expires:** 3/18/11

**Examiner of Record:** Steven E McCullough

  
ACI Managing Director of Certification

*The Authenticity of this certification can be verified at [www.ACICertification.org/Verify](http://www.ACICertification.org/Verify)*

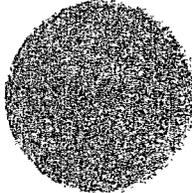
**Name:**  
Adam Gordon

**Address:**  
731 Pilot Rd. Ste. H  
Las Vegas, NV-89119

**Issue Date:**  
May-23-2008

**Certificate Number:**  
NV000371

NEVADA ALLIANCE FOR QUALTY  
**NAATC**  
TRANSPORTATION CONSTRUCTION



Module	Expiration
Sampling and Density	May-20-2013
Aggregate	--
Asphalt	--
T40	--
T190	--
T104	--
T283	--
T246	--
C837	--

# ADAMSON UNIVERSITY

ANG PABAHALAAN NG  
THE BOARD OF TRUSTEES OF THE  
**Adamson University**  
MANILA, REPUBLIC OF THE PHILIPPINES  
MANILA, REPUBLIC OF THE PHILIPPINES

Sa lahat na makabatasa ng Kasulatang ito, Pati:  
 to all those Letters may come Greetings:  
 Alamin na sa araw na ito, sa biso ng Kapangyarihang kaloob sa amin ng Republika ng Pilipinas  
 Be it known that this day, by virtue of the Authority in us vested by the Republic of the Philippines  
 at sa tagubilin ng Kaguruan, ininagalob namin uong Diploma kay  
 and upon the recommendation of the Faculty we have conferred this Diploma upon

**Antonio Manuzon Bandales**

na nakatapos ng mga pang-aral at nakatupad sa mga hinihingi para sa antas  
 who has completed the study and satisfied the requirements for the Degree

**Bachelor of Science in Civil Engineering**

na nangyayari sa itinakda ng Ministri ng Edukasyon at Kultura.  
 as provided by the Ministry of Education and Culture.

Katunayan sa ukminal dito ang Sagisag ng Unibersidad, ang mga Lagda ng Pangulo,  
 the Seal of the University and the Signature of the President.

Pangulo at ng Tagapala: Isinauwad sa Maynila, Pilipinas, ngayong ika-27 araw ng  
 and the Registrar are hereunto affixed. Given at Manila, Philippines, on this day of  
 aling Pangunong Labingiyam na room at  
 of our Lord, Fifteen Hundred and

*Primitivo S. Obispo*  
 PANG-PANGULO  
 VICE-CHANCELLOR

*Primitivo S. Obispo*  
 PANG-PANGULO  
 VICE-CHANCELLOR

No 32145

# Certificate Of Completion

This is to certify that Antonio M. Bandalés has completed the  
basic CPN® training course on Radiation Safety and Use of Nuclear Gauges,  
held this 31st day of January 19 98 in the  
City of Las Vegas State of NV by Boart Longyear Company.

Boart Longyear Company  
2830 Howe Road  
Martinez, California 94553 USA  
Phone: (510) 228-9770  
Fax: (510) 228-3183



Charles D. Cherry  
INSTRUCTOR  
Douglas Carter  
RADIATION SAFETY OFFICER



# CERTIFICATE OF COMPLETION

PRESENTED TO

**Antonio Bandales**

FOR SUCCESSFUL COMPLETION  
OF THE SIMPSON STRONG-TIE  
PRODUCT KNOWLEDGE SEMINAR



*Amanda Martinez*  
Education/Training Manager

March 15, 1999  
Date

Module	Expiration
SD	N/A
AG	11-16-2009
AE	11-17-2009
T 40	N/A
T 104	N/A
T 190	N/A
T 245	N/A
T 283	N/A
C 837	N/A



**Name:** Antonio M. Bandalas

**Address:** 734 West 8th St. N.  
Las Vegas, NV 89119

**Issued Date:** 11/22/2004

**Certificate Number:** NV 000495

No 36261

# Certificate Of Completion

This is to certify that Luis A. Guerrero has completed the  
basic CPN® training course on Radiation Safety and Use of Nuclear Gauges,  
held this 29th day of August 2000 in the  
City of Las Vegas State of NV by CPN International.

CPN International, Inc.  
2830. Howe Road  
Martinez, CA 94553 USA  
Phone: (925) 228-8770  
Fax: (925) 228-3183



*Charles D. Cherry*  
INSTRUCTOR  
*Douglas Carter*  
RADIATION SAFETY OFFICER

11/17/00 17:13:00

NO. 2922 J. 1



ACI CONCRETE FIELD TESTING  
TECHNICIAN - GRADE 1

LUIS A GUERRERO

Certification ID# 00053912

Certification Expires on: 3/18/11

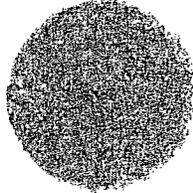
Name:  
Luis Guerrero

Address:  
731 Pilot Rd. Ste. H  
Las Vegas, NV 89119

Issue Date:  
May-23-2008

Certificate Number:  
NV000133

NEVADA ALLIANCE FOR QUALITY  
**NAATC**  
TRANSFORMATION CONSTRUCTION



Module	Expiration
Sampling and Density	May-20-2013
Aggregate	Nov-15-2010
Asphalt Extended	Nov-16-2010
T40	--
T190	--
T104	--
T283	--
T246	--
C837	--

# AMERICAN CONCRETE INSTITUTE

*This is to certify that*

## NELSENE E ALFORD

*has demonstrated knowledge and ability by  
successfully completing the ACI certification  
requirements and is hereby recognized as an*

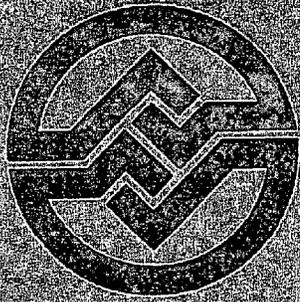
### ACI CONCRETE FIELD TESTING TECHNICIAN - GRADE I

Certified Date: 2/20/04

Expires: 2/20/09

Examiner:





# CONVERSE CONSULTANTS

9831 S. 51<sup>st</sup> St., G-112

Phoenix, AZ 85044

480-269-0266

[www.converseconsultants.com](http://www.converseconsultants.com)

## Certificate of Completion

*Nelsene Alford*

Maricopa County Rule 310 Comprehensive  
Dust Control Training

*Mary Ellen Boom, R.S., Project Air Quality Specialist*

*March 27, 2008*

# STATE OF ARIZONA

STATE BOARD OF  
TECHNICAL REGISTRATION

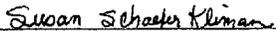
**SHIRLEE RHODES**

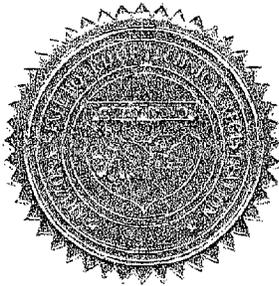
HAVING EXHIBITED TO THE ARIZONA STATE BOARD OF  
TECHNICAL REGISTRATION SATISFACTORY EVIDENCE OF GOOD  
MORAL CHARACTER AND OF QUALIFICATIONS AND PROFICIENCY,  
IS HEREBY AUTHORIZED TO PRACTICE PROFESSIONALLY IN THE  
STATE OF ARIZONA AND USE THE TITLE OF

**REGISTERED PROFESSIONAL GEOLOGIST**

IN WITNESS THEREOF, THE BOARD  
GRANTS CERTIFICATION AND ISSUES  
CERTIFICATE NUMBER **47523** SUBJECT  
TO RENEWAL, AND AFFIXES THE SEAL  
OF THIS BOARD AT PHOENIX ARIZONA  
THIS 12TH DAY OF DECEMBER 2007

  
Richard Y. Pawelko, Board Chairman

  
Susan Schaefer Kliman PhD, Board Secretary



# STATE OF ARIZONA



## STATE BOARD OF TECHNICAL REGISTRATION

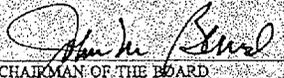
FOR ARCHITECTS, ASSAYERS, ENGINEERS, GEOLOGISTS,  
LANDSCAPE ARCHITECTS AND LAND SURVEYORS

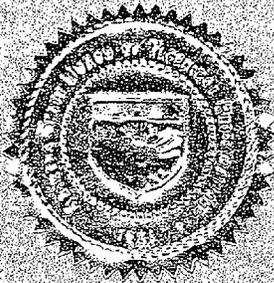
**JAMES L WERLE**

HAVING EXHIBITED TO THE ARIZONA STATE BOARD OF  
TECHNICAL REGISTRATION SATISFACTORY EVIDENCE OF GOOD  
MORAL CHARACTER AND OF QUALIFICATIONS AND PROFICIENCY,  
IS HEREBY AUTHORIZED TO PRACTICE PROFESSIONALLY IN THE  
STATE OF ARIZONA AND USE THE TITLE OF

**REGISTERED GEOLOGIST**

IN WITNESS THEREOF THE BOARD  
GRANTS REGISTRATION AND ISSUES  
CERTIFICATE NUMBER 24905 SUBJECT  
TO RENEWAL AND AFFIXES THE SEAL  
OF THIS BOARD AT PHOENIX, ARIZONA  
THIS 17TH DAY OF JANUARY, 1991

  
CHAIRMAN OF THE BOARD  
  
SECRETARY OF THE BOARD



# STATE OF ARIZONA

## STATE BOARD OF TECHNICAL REGISTRATION

**JASON MICHAEL DIXON**

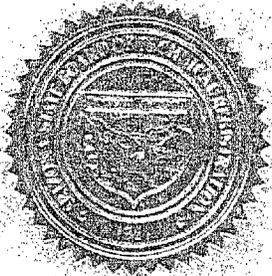
HAVING EXHIBITED TO THE ARIZONA STATE BOARD OF  
TECHNICAL REGISTRATION SATISFACTORY EVIDENCE OF GOOD  
MORAL CHARACTER AND OF QUALIFICATIONS AND PROFICIENCY,  
IS HEREBY AUTHORIZED TO PRACTICE PROFESSIONALLY IN THE  
STATE OF ARIZONA AND USE THE TITLE OF

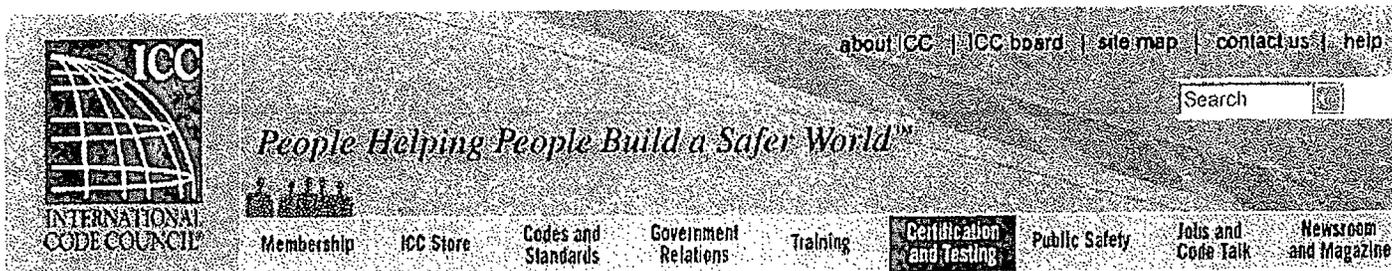
**REGISTERED PROFESSIONAL ENGINEER**  
WITH PROFICIENCY IN  
**CIVIL ENGINEERING**

IN WITNESS THEREOF, THE BOARD  
GRANTS CERTIFICATION AND ISSUES  
CERTIFICATE NUMBER 41696 SUBJECT  
TO RENEWAL AND AFFIXES THE SEAL  
OF THIS BOARD AT PHOENIX, ARIZONA  
THIS 9TH DAY OF NOVEMBER, 2004.

*Chet L Pearson*  
BOARD CHAIR

*Stuart R. C.*  
BOARD SECRETARY





Inspector | Contractor

**Certified Professional Information:**

**Last, First MI:** Smith, Darwin V  
**Certified under this name:** DARWIN V. SMITH  
**Home Address:** 616 Tyler Ridge Ave  
**City, State Zip:** Henderson, NV 89012  
**Home Phone:** (702) 434-5249

**Certification Type(s):** Reinforced Concrete Special Inspector-Legacy (expires 1/24/10)

Listings here may not reflect today's changes, additions, exam results, or certifications from organizations other than ICC (including BOCA, ICBO, and SBCCI). Listings are updated nightly on this web site, so please allow a full 24 hours for changes to be reflected here. ICC certification for code enforcement professions attests to competent knowledge of construction codes and standards in effect on the date of certification or renewal.

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**Certification Exams**

- [Certified Fire Marshal](#)
- [Disaster Response Inspector](#)
- [Coastal & Floodplain Construction Inspector](#)
- [Structural Steel & Bolting Special Inspector](#)
- [Structural Welding Special Inspector](#)

**Contact Information**

- 1-888-ICC-SAFE (422-7233), ext.**
- [Certification Examinations 33806](#)
- [Certification Renewal 33815](#)
- [MCP Certification Examinations 33806](#)
- [CBO Examinations 33806](#)
- [Contractor Examinations 33805](#)
- [Legacy Examinations 33823](#)
- [UST/AST Examinations 33823](#)
- [Special Inspection Examinations 33823](#)

ICC RENEWAL DEPT  
 3360 WORKMAN MILL RD  
 WHITTIER CA 90601-2298

The individual named herein is CERTIFIED in the category  
 of REINFORCED CONCRETE SPECIAL INSPECTOR-LEGACY  
 having having been so certified pursuant to applicable  
 provisions of the prescripted written requirements  
 and examination date: January 29, 2010  
 0880884-88

GEORGE V. SMITH  
 REINFORCED CONCRETE SPECIAL INSPECTOR-LEGACY



6

# STATE OF ARIZONA

STATE BOARD OF  
TECHNICAL REGISTRATION

**MARTIN D. JENSEN**

HAVING EXHIBITED TO THE ARIZONA STATE BOARD OF  
TECHNICAL REGISTRATION SATISFACTORY EVIDENCE OF GOOD  
MORAL CHARACTER AND OF QUALIFICATIONS AND PROFICIENCY,  
IS HEREBY AUTHORIZED TO PRACTICE PROFESSIONALLY IN THE  
STATE OF ARIZONA AND USE THE TITLE OF

**REGISTERED PROFESSIONAL ENGINEER**

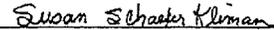
WITH PROFICIENCY IN

**CIVIL**

IN WITNESS THEREOF, THE BOARD  
GRANTS CERTIFICATION AND ISSUES  
CERTIFICATE NUMBER 47948 SUBJECT  
TO RENEWAL, AND AFFIXES THE SEAL  
OF THIS BOARD AT PHOENIX ARIZONA  
THIS 22ND DAY OF APRIL 2008

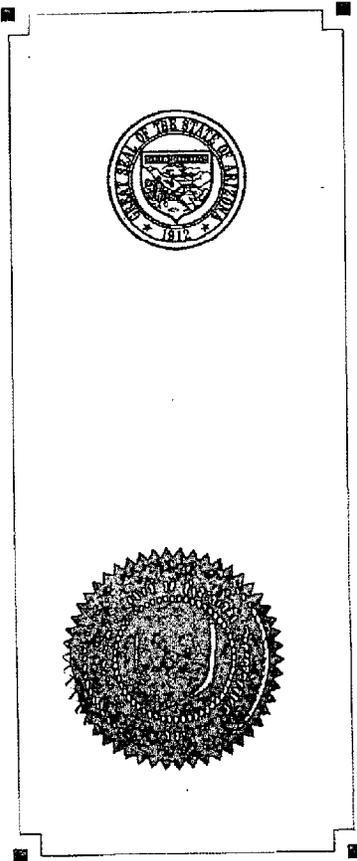


Richard Y. Pawelko, Board Chairman



Susan Schaefer Kliman PhD, Board Secretary





# STATE OF ARIZONA

## STATE BOARD OF TECHNICAL REGISTRATION

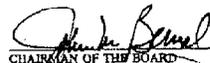
FOR ARCHITECTS, ASSAYERS, ENGINEERS, GEOLOGISTS,  
LANDSCAPE ARCHITECTS AND LAND SURVEYORS

**LOUIS HAROLD KNIGHT JR.**

HAVING EXHIBITED TO THE ARIZONA STATE BOARD OF  
TECHNICAL REGISTRATION SATISFACTORY EVIDENCE OF GOOD  
MORAL CHARACTER AND OF QUALIFICATIONS AND PROFICIENCY,  
IS HEREBY AUTHORIZED TO PRACTICE PROFESSIONALLY IN THE  
STATE OF ARIZONA AND USE THE TITLE OF

**REGISTERED GEOLOGIST**

IN WITNESS THEREOF, THE BOARD  
GRANTS REGISTRATION AND ISSUES  
CERTIFICATE NUMBER 25064 SUBJECT  
TO RENEWAL, AND AFFIXES THE SEAL  
OF THIS BOARD AT PHOENIX, ARIZONA  
THIS 20TH DAY OF FEBRUARY, 1991.

  
CHAIRMAN OF THE BOARD  
  
SECRETARY OF THE BOARD

# STATE OF ARIZONA

## STATE BOARD OF TECHNICAL REGISTRATION

**DEAN RAY STANPHILL**

HAVING EXHIBITED TO THE ARIZONA STATE BOARD OF  
TECHNICAL REGISTRATION SATISFACTORY EVIDENCE OF GOOD  
MORAL CHARACTER AND OF QUALIFICATIONS AND PROFICIENCY,  
IS HEREBY AUTHORIZED TO PRACTICE PROFESSIONALLY IN THE  
STATE OF ARIZONA AND USE THE TITLE OF

**REGISTERED PROFESSIONAL ENGINEER**

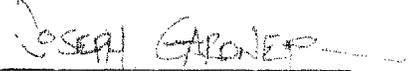
WITH PROFICIENCY IN

**CIVIL ENGINEERING**

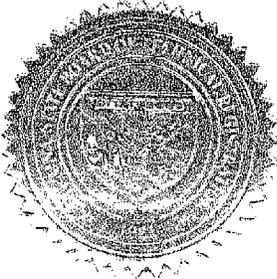
IN WITNESS THEREOF, THE BOARD  
GRANTS CERTIFICATION AND ISSUES  
CERTIFICATE NUMBER 39163 SUBJECT  
TO RENEWAL, AND AFFIXES THE SEAL  
OF THIS BOARD AT PHOENIX ARIZONA  
THIS 8TH DAY OF APRIL, 2003.



BOARD CHAIR



BOARD SECRETARY





**CCRL**  
Cement and Concrete  
Reference Laboratory

[www.ccrl.us](http://www.ccrl.us)

March 12, 2008

Mr. Dan Hogan  
Project Manager  
Converse Consultants  
9831 South 51<sup>st</sup> Street, Suite C112  
Phoenix, Arizona 85044

Subject: Inspection of Concrete Testing Laboratory

Dear Mr. Hogan:

Enclosed is a confirmatory report on Inspection Number H-707, which was completed in your testing laboratory at Phoenix, Arizona, on January 29, 2008, by a representative of the Cement and Concrete Reference Laboratory.

This letter, and the accompanying report, provide written evidence that your laboratory has been inspected during the 33<sup>rd</sup> Inspection Tour.

It is requested that these evidences of the inspection not be used for advertising, publication, or promotional purposes.

Very truly yours,

Peter A. Spellerberg  
Manager, Cement and Concrete Reference Laboratory  
Materials and Construction Research Division  
Building and Fire Research Laboratory

Enclosure

cc: J. Rose  
D. V. Smith



## AASHTO Materials Reference Laboratory

[Home](#)
[AASHTO Accreditation](#)
[Laboratory Assessment](#)
[Proficiency Testing](#)
[NTPEP Evaluations](#)

### AASHTO Accreditation Details\*

#### Converse Consultants

##### Phoenix, Arizona

[Show This Entry Only](#)

Dan Hogan

9831 S. 51st Street  
Suite C112

Phoenix, AZ 85044

Phone: (480) 296-0266

Fax: (480) 296-0277

[dhogan@converseconsultants.com](mailto:dhogan@converseconsultants.com)

<http://www.converseconsultants.com>

##### Hot Mix Asphalt - accredited since 11/5/2007

T166 T209 T245 T269 T275 - D2041 D2726 D3203 D3666 D6926 D6927 E329

##### Soil - accredited since 11/5/2007

T87 T88 T89 T90 T99 T100 T146 T176 T180 T265 T310 - D421 D422 D698 D1140  
D1557 D2216 D2419 D2487 D2488 D3740 D4318 D6938 E329

##### Aggregate - accredited since 11/5/2007

T11 T19 T21 T27 T84 T85 T112 T176 T248 T255 - C29 C40 C117 C127 C128 C136 C142  
C566 C702 C1077 C2419 D3666 D4791 D5821 E329

\*This information is only valid as of 6/6/2008. Please visit <http://www.amrl.net> for current accreditation status.

Get Documents Here:

### Notice

#### Please Note

The dates displayed beside the field of accreditation correspond to the year of initial accreditation in that field.

#### Printouts may be outdated

Paper copies of this page may be outdated and/or altered. Current accreditation information (test methods, suspensions, and contact details) can only be found on the AMRL website. These changes aim to increase the accuracy of the accreditation status for each participating laboratory.



**CONVERSE CONSULTANTS**  
**Geotechnical &**  
**Projects with**  
**THE RIGHT PEOPLE**

**Converse Consultants**

**Phoenix, AZ**

**Geotechnical Engineering, Materials  
Testing, Environmental, Industrial  
Hygiene and Water Resources.**

**Since 1946**

**City of Peoria  
Material & Geotechnical  
Testing Services Presentation  
July 21, 2008**



Converse Consultants  
9831 S. 51st Street, C112  
Phoenix, AZ 85044  
480-296-0266  
[www.converseconsultants.com](http://www.converseconsultants.com)





# City of Peoria

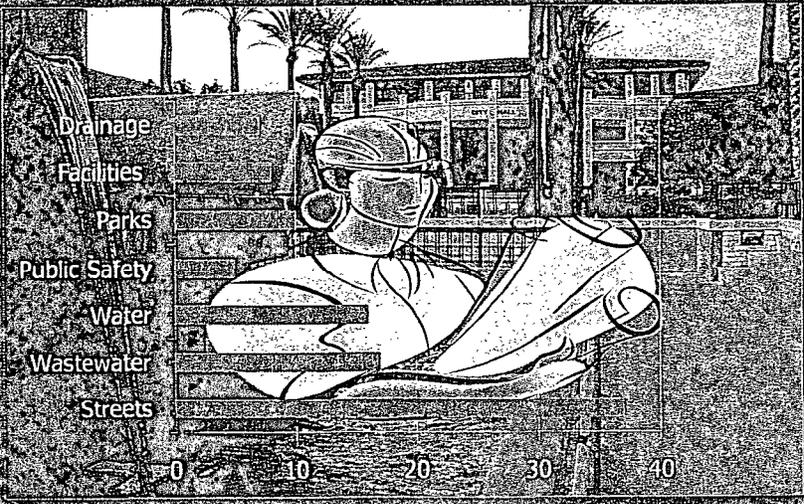
## On-Call Geotech & Materials Testing



Converse Consultants  
The Missing Piece to the Peoria Team



# City of Peoria 10-Year CIP



- Drainage
- Facilities
- Parks
- Public Safety
- Water
- Wastewater
- Streets

0 10 20 30 40

# Your Converse Collaborator

**Login:**  
 peoria  
**Password:**  
 070908

Name	Size (KB)	Created	Last Modified
Curve A W111e0P-102_100.pdf	17,01953	7/9/2008 1:42:29 PM	7/9/2008 1:42:29 PM
Converse Consultants Peoria On-Call June08	704,8672	7/9/2008 12:11:31 PM	7/9/2008 12:11:31 PM
peoria0148-DVE6June08.pdf	26,94629	7/9/2008 12:13:15 PM	7/9/2008 12:13:15 PM
peoria sheets.pdf	1778,64	7/9/2008 12:13:15 PM	7/9/2008 12:13:15 PM
Supplemental Rate Sheet.pdf	138,9189	7/9/2008 2:18:51 PM	7/9/2008 2:18:51 PM

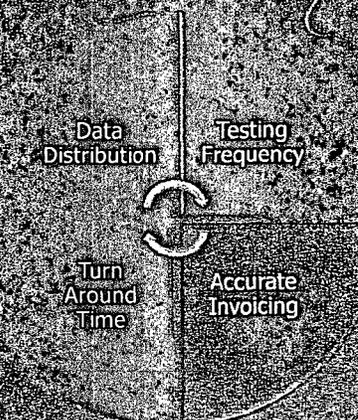
# ReMi (Refraction Microtremor) Geotechnical

- Converse is unique in self-performing ReMi Surveys in Arizona.
- IBC Site Classification
  - Decrease Lateral Load 25%
- Overall Project Savings
  - Construction Materials
  - Labor

**Jim Rose, P.E.**  
 Senior Engineer  
 PE, Civil AZ  
 25 Years of Experience

## Construction Materials Management (CMT)

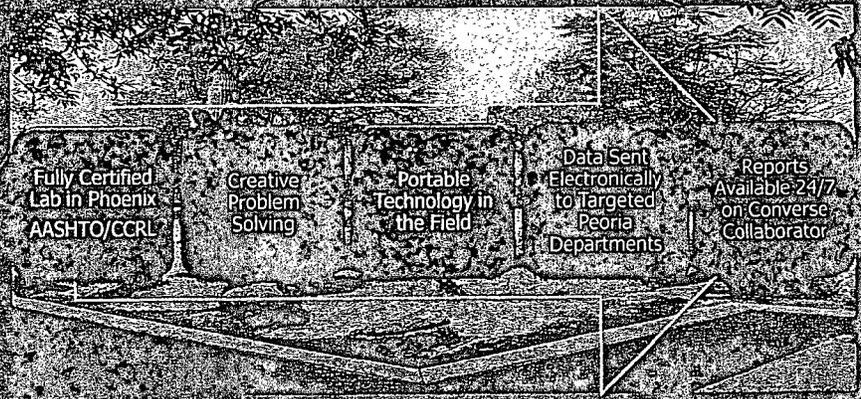
### Managing What Matters



Jose Ojeda  
Project Manager  
8 Years of Experience



## Materials Testing Laboratory



Fully Certified Lab in Phoenix  
AASHTO/CCRL

Creative Problem Solving

Portable Technology in the Field

Data Sent Electronically to Targeted Peoria Departments

Reports Available 24/7 on Converse Collaborator

Jeff Baer  
Laboratory Manager  
14 Years of Experience



## Value Added Services

Technology

Environmental      QA/QC

Risk Management      Professional Development

**Dean Alford**  
Principal  
Contract Administrator  
21 Years of Experience

## Converse Completes The Peoria Team

- Experienced & Skilled Staff
- Comprehensive Services
- Efficient
- Effective



# Key Converse Personnel For the City of Peoria



**CONVERSE CONSULTANTS** is a comprehensive, full-service geotechnical engineering, materials testing and inspection, and environmental sciences consulting firm that has been providing professional consulting engineering services throughout the Western United States for more than 60 years. **CONVERSE** was originally-established in 1946 and has continuously expanded since that time to include 12 offices nationally with more than 350 employees. Our professional staff of engineers, geologists, certified

**Dean E. Alford, CEM**, is the managing officer for *Converse Four Corners Region Office* located in Phoenix, Arizona. Dean has nearly 20 years of geologic, geotechnical and environmental experience including field exploration, environmental site assessments, and mold and asbestos surveys. As principal-in-charge, Dean provides oversight, resource allocation and budget oversight.

**James D. Rose, PE** has over 27 years of geotechnical engineering experience. Jim is responsible for a variety of projects including batch plant inspections, bridges, streets, highways, pipelines, utilities, flood control facilities, as well as, commercial, industrial and residential developments. Primary responsibilities are technical oversight, field/lab investigations and quality assurance/quality control.

**Project Manager Jose Ojeda** has been in the CMT industry for over eight years and is the project manager for the construction materials testing group for the Phoenix Office. Over the last four years Jose has been a project manager for a variety of CMT and special inspections projects.

**Laboratory Manager Jeff Baer** has over 14 years experience as a laboratory and field technician and laboratory manager. As senior laboratory technician and laboratory supervisor, Jeff conducts lab tests for projects with a variety of public agencies. He is directly responsible for overseeing all laboratory tests for geotechnical projects as well as overall management of the laboratory. He is fully certified via ATTI, AASHTO and ACI, with certifications and experience exceeding NICET Level II certifications. His experience includes: batch plant inspections, concrete mix design and general laboratory testing for municipal, commercial, industrial and residential construction projects.

**Client Advocacy Patricia Krogh** has developed her client relations skills over the past 20 years in business development and communications, with 10 years specifically in the A/E/C industry. Patricia is the incoming president-elect for the SMPS Arizona Chapter and is very active in AAED and Westmarc, keeping up-to-date on economic development issues.

A large graphic of a puzzle piece, which is the shape of the state of Arizona, set against a dark, textured background. The puzzle piece is white and contains text about current projects.

**Current Geotechnical Projects**

- La Paz County Park Water Campus  
Parker, AZ
- Navajo Mine Extension Project  
San Juan County, NM
- Custom Homes Subdivision  
Gilbert, AZ

**Current Testing and Inspection Projects**

- Jerry Colangelo Boys & Girls Club  
Phoenix, AZ
- Gila River Water System Improvements  
Phoenix, AZ
- Innovative Center (Anthem)  
Phoenix, AZ
- Luxury Custom Homes in Arizona
- Doug Fulton Residence
- Knight Residence
- Adleman Residence
- Goettel Residence

The logo for Converse Consultants, featuring a stylized 'C' and 'S' intertwined within a circular border.

# Your Converse Collaborator



Converse Consultants has developed a proprietary software package that allows rapid upload and download of datasets, drawings and other client-specific files for review. Through the Converse Collaborator graphic user interface over the Converse dedicated server, the City of Peoria will obtain real time data and project status, review documents, GIS products and deliverables.

**CONVERSE CONSULTANTS COLLABORATOR** Help

Folder Navigation  
 City of Peoria \ 10 \ Root \ City of Peoria On Call Materials and Geotechnical Services

Up One Folder Level Refresh Page

File Operations  
 (Select files to include with checkboxes to left of file names.)

Create Zip File  
 Zip Name: (Select files to include with checkboxes to left of file names.) **Maximum ZIP file size 60 megabytes**

	Name	Size (KB)	Created	Last Modified
<input type="checkbox"/>	061908_Curve_A_W011ab00-1D2_188.pdf	17.01953	7/9/2008 1:42:29 PM	7/9/2008 1:42:29 PM
<input type="checkbox"/>	Converse Consultants Peoria On-Call June08 Proposal.pdf	709.8672	7/9/2008 12:13:15 PM	7/9/2008 12:13:15 PM
<input type="checkbox"/>	PeoriaOnCallCONVERJune08.pdf	36.94629	7/9/2008 12:13:15 PM	7/9/2008 12:13:15 PM
<input type="checkbox"/>	Rate sheets.pdf	1778.64	7/9/2008 12:13:15 PM	7/9/2008 12:13:16 PM
<input type="checkbox"/>	Supplemental Rate Sheet.pdf	138.9189	7/9/2008 2:18:31 PM	7/9/2008 2:18:31 PM

Create Folder

Upload Files  
 Click: Add file button to upload multiple files at once  
 Browse... Add File

Upload  
 Maximum file size 60 megabytes (You can zip files before uploading to reduce file size)

A login and password have been set up for the City of Peoria so that you can review the web-based solution, Converse Collaborator.

HTTP://209.58.242.230/CONVERSECOLLAB

LOGIN NAME: Peoria  
 PASSWORD: 070908



# Refraction Microtremor (ReMi) Survey



## Background

The 2000 International Building Code (IBC) was recently adopted by several local agencies. IBC requires that a NEHRP (National Earthquake Hazard Reduction Program) site class be determined for building sites. The determination of a NEHRP site class is based on the shear wave velocity in the upper 100 feet of the soil/rock profile at the site. NEHRP site classes are ranked from best to worst in terms of site responses during an earthquake. As shear wave velocity decreases, shaking hazard increases. Shear wave velocities can be measured directly using geophysical methods such as seismic refraction or estimated from Standard Penetration Tests in boreholes or from shear strength testing of soil samples obtained from boreholes.

## Site Class D is the Default

The seismic design provision of the IBC requires that a site be classified as site class D (stiff soil) unless you can provide a basis for a "better" class. With each improvement in site classification, fewer structural design improvements are required. Therefore, a site class C (very dense soil & soft rock) will be less expensive to develop than a site class D.

## Most of Peoria is Site Class C

Recent research indicates that most of Maricopa County may be considered a NEHRP site class C. Considering the extra cost for implementing seismic design provisions of the IBC for class site D, investigations are warranted to see if your site can be reclassified as a site class C.

## Drilling is Traditional, but Costly

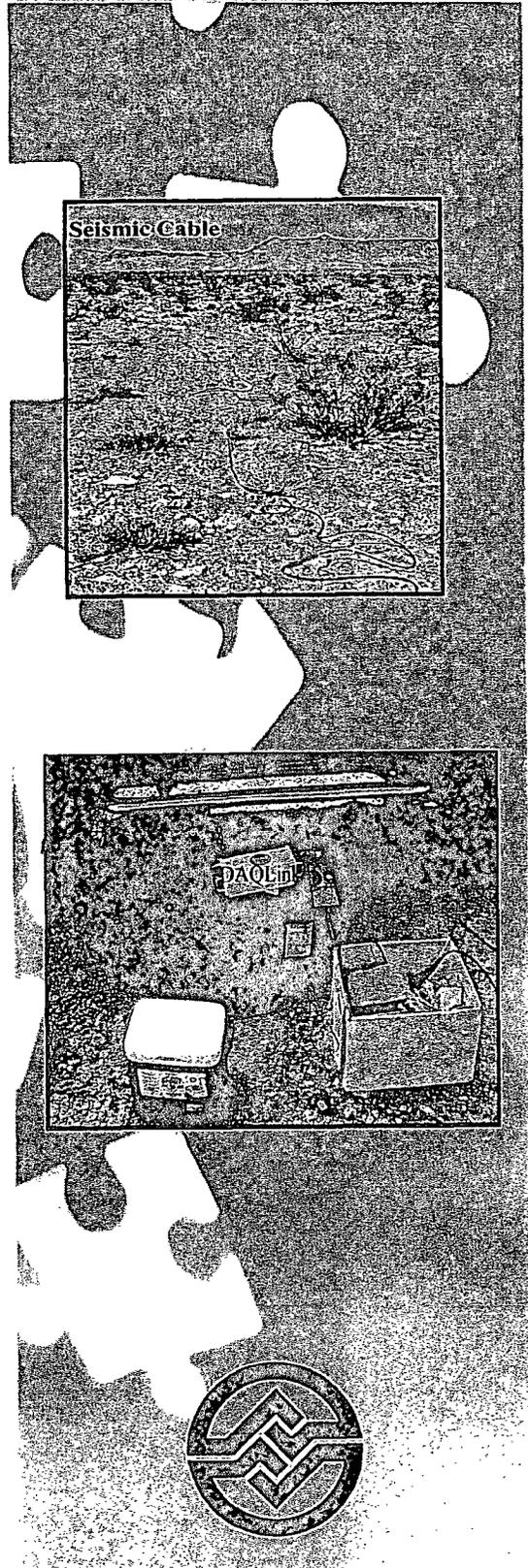
Shear wave velocity is traditionally estimated with engineering surveys in boreholes. Drilling is costly, with escalating fuel and insurance costs.

## Accepted, Faster & Less Expensive

A refraction microtremor (ReMi) survey provides an alternative to borehole testing. The method is quick and requires less equipment than drilling. Unlike other seismic refraction methods, it requires no trigger source (like blasting) and uses common urban background noise.

## ReMi May Actually Give Better Results

The ReMi has another advantage over other methods such as boreholes. Unlike the other techniques, ReMi directly measures Rayleigh waves. Rayleigh waves are considered the waves that are associated with causing the most damage during an earthquake.



# Contact Information



**Converse Consultants**  
Geotechnical Engineering  
Environmental & Groundwater Science  
Inspection & Testing Services

**Dean Alford**  
Principal  
Environmental Scientist

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Facsimile (480) 296-0277  
Cellular (480) 254-0712  
dalford@converseconsultants.com



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Inspection & Testing Services

**Jose Djeda**  
Project Manager

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FAX (480) 296-0277  
CELL (480) 766-1740



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Groundwater Science  
Environmental Management

**James D. Rose, PE**  
Sr. Geotechnical Engineer

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<http://www.converseconsultants.com>

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FAX (480) 296-0277  
CELL (480) 388-4257



**Converse Consultants**  
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Groundwater Science  
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Laboratory Manager

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jbaer@converseconsultants.com  
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**Converse Consultants**  
Geotechnical Engineering  
Environmental & Groundwater Science  
Inspection & Testing Services

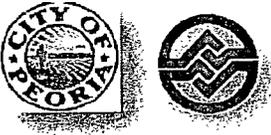
**Patricia Krogh**  
Arizona Director of Client & Business Development  
Arizona/Four Corners Region

9831 S. 51st Street  
Suite C112  
Phoenix, AZ 85044

pkrogh@converseconsultants.com  
<http://www.converseconsultants.com>

TEL (480) 296-0266 Ext. 1009  
FAX (480) 296-0277  
CELL (480) 406-7625

**City of Peoria Minimum Testing Requirements**



COP Project: Sample Project  
 COP Project No: EN00204  
 COP Inspector: MR. Inspector

Contractor: FNF Construction  
 Converse PM: Jose Ojeda  
 Ph: 480.766.1740  
 Fax: 480.296.0277

Item Number	Description	Quantity	Depth	Sampling Requirement	Frequency	MAG Section	Tests Required	Tests Performed	Remarks
M3010001	Subgrade Preparation	1,569 SY	1'	Proctor	1 per soil type	205, 301	1		
		1,569 SY	1'	Gradation/PI	1 per soil type	205, 301	1		
		1,569 SY	1'	Compaction	One per 800 SY	205, 301	2		
M3100000	Aggregate Base Course	342 Tons	4"	Proctor	1, additional as needed	701,702	1		
		342 Tons	4"	Gradation/PI	1 per 1,000 Tons	701,702	1		
		342 Tons	4"	Compaction	1 per lane	701,702	2		
M3210100	AC Surface Course (D1/2)	12 Tons	3"	Oil Content	1 per 350 Tons	321,710	1		
		12 Tons	3"	Mix Properties	1 per day	321,710	1		
		12 Tons	3"	Density/Nuke	1 per 650'/lift/lane	321,710	2		
		12 Tons	3"	Density/Core	5 to 7 cores/mix	321,710	5		At Discretion of Inspector
M3210250	AC Base Course (D3/4)	441 Tons	5"	Oil Content	1 per 350 Tons	321,710	2		
		441 Tons	5"	Mix Properties	1 per day	321,710	1		
		441 Tons	5"	Density/Nuke	1 per 650'/lift/lane	321,710	4		
		441 Tons	5"	Density/Core	5 to 7 cores/mix	321,710	5		At Discretion of Inspector
M3400400	Concrete Sidewalk (P1230)								
		1,998 SF		Compaction	One per 800 SY	301, 710	1		
		25 YD		Cylinders	1 per 50 CY per day	340, 725	1		
M3400555	Concrete Driveway (P1255-1)								
		485 SF		Compaction	1 per 800 SY	301, 710	1		
		14 YD		Cylinders	1 per 50 CY per day	340, 710	1		
M3400556	Concrete Driveway (P1255-2)								
		10 SF		Compaction	One per 800 SY	301, 710	1		
		1 YD		Cylinders	1 per 50 CY per day	340, 725	1		
M3402201	Concrete Curb/Gutter								
		462 LF		Compaction	1 per 650 LF	301, 710	1		
		8 YD		Cylinders	1 per 50 CY per day	340, 710	1		
M5051525	Concrete Catch Basin (P1569-1)	1 Ea							
				Cylinders	1 per 50 CY per day	340, 725	1		
M5051588	Concrete Catch Basin (P1573)	1 Ea							
				Cylinders	1 per 50 CY per day	340, 710	1		
M6100341	Water Service Replacement	61 LF	8'	Proctor	1 per soil type	601	1		
		61 LF	8'	Compaction	1 per 650 LF/Lift	601	8		
M6104012	12" Ductile Iron Pipe	210 LF	6'	Proctor	1 per soil type	601	1		
		210 LF	6'	Compaction	1 per 650 LF/Lift	601	6		
M6180506	Concrete Pipe Collar	2 Ea		Proctor	1 per soil type	601	1		
				Cylinders	1 per 50 CY per day	725	2		
				Cylinders	1 set of 4 per shift	728	1		

117		Converse Consultants														
		SEWER MAINLINE TESTING SCHEDULE														
Client: City of Peoria		Job #:										Type: Sewer				
Project: Thunderbird Reconstruction		City: Peoria														
Location: Thunderbird and 75th Ave																
TECHS. INITIALS	DATE	TYPE	STREET	TEST BETWEEN STATIONS	BTM. ELEVATIONS	ACTUAL STATION	ACTUAL ELEVATION	% MOISTURE	DRY DENSITY	MAX. DRY DENS.	OPT. MOIST.	CORR. MAXIMUM DENSITY	% COMPACTION	% COMPACTION REQUIRED	PASS/ FAIL	
Mechanically Compacted Trench Backfill Shall Have a Moisture Content Within +/-2% of Optimum																
JO	7/7/08	N	Thunderbird Road	10+00 -15+00	Bedding	10+50	Bedding	15.9%	113.4	118.7	16.2%	118.7	96%	90%	PASS	
JO	7/7/08	N	Thunderbird Road	10+00 -15+00	92	11+00	92	16.5%	113.6	118.7	16.2%	118.7	96%	90%	PASS	
JO	7/8/08	N	Thunderbird Road	10+00 -15+00	93	11+25	93	17.2%	114.5	118.7	16.2%	118.7	96%	90%	PASS	
JO	7/8/08	N	Thunderbird Road	10+00 -15+00	94	10+75	94	15.8%	115.7	118.7	16.2%	118.7	97%	90%	PASS	
JO	7/8/08	N	Thunderbird Road	10+00 -15+00	95	12+50	95	16.3%	115.9	118.7	16.2%	118.7	98%	90%	PASS	
JO	7/9/08	N	Thunderbird Road	10+00 -15+00	96	12+75	96	15.9%	114.6	118.7	16.2%	118.7	97%	90%	PASS	
JO	7/9/08	N	Thunderbird Road	10+00 -15+00	97	12+00	97	16.1%	114.1	118.7	16.2%	118.7	96%	90%	PASS	
JO	7/10/08	N	Thunderbird Road	10+00 -15+00	98	13+50	98	16.7%	115.5	118.7	16.2%	118.7	97%	90%	PASS	
			Thunderbird Road	10+00 -15+00	99					118.7	16.2%	118.7	0%	95%		
JO	7/10/08	N	Thunderbird Road	10+00 -15+00	100	14+50	100	16.9%	115.7	118.7	16.2%	118.7	97%	95%	PASS	
JO	7/10/08	SC	Thunderbird Road	10+00 -15+00	100	14+00	100	16.5%	115.9	118.7	16.2%	118.7	98%	95%	PASS	

(PI) + (% Passing #200) > 23 = Non Granular

(PI) + (% Passing #200) < 23 = Granular

N = Nuclear Gauge

SC = Sand Cone

# Converse Consultants

**PROJECT:** Project X  
**LOCATION:** Peoria, Arizona  
**MATERIAL:** Native  
**SAMPLE SOURCE:** South end of Building Pad

**JOB NO:** 08-53186-01  
**WORK ORDER NO:** 1  
**LAB NO:** 08-102  
**SAMPLE DATE:** 6/19/2008



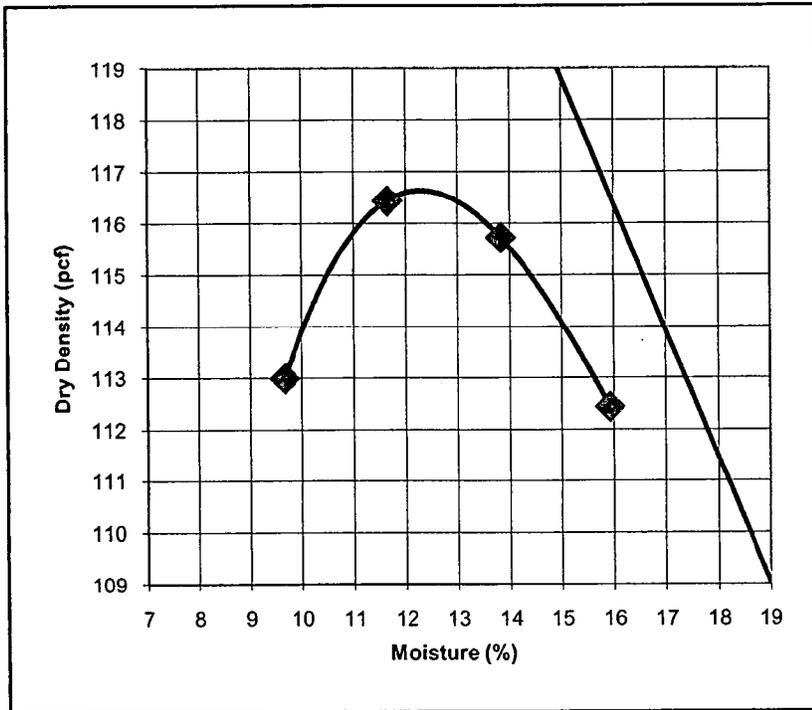
**LABORATORY COMPACTION CHARACTERISTICS OF SOILS USING  
 STANDARD EFFORTS (12,400ft-lb-ft/cu.ft) (ASTMD698A)  
 SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (ASTM C136/C117)  
 LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS (ASTM D4318) (DRY PREP)**



**CURVE:** A  
**Maximum dry density:**  
**Optimum moisture (%):**

English (pcf)	Metric (kg / cu.m.)	Rock Correction
116.6	1868	124.9
12.3	12.3	9.4

SIEVE SIZE	PERCENT PASSING
6 in / 152mm	100
4 in / 100mm	100
3 in / 75mm	100
2 in / 50mm	100
1 1/2 in / 37.5mm	100
1 1/4 in / 32 mm	100
1 in / 25 mm	97
3/4 in / 19 mm	90
1/2 in / 12.5 mm	88
3/8 in / 9.5 mm	86
1/4 in / 6.4 mm	79
#4, 4.75mm	74
#8, 2.36mm	70
#10, 2.00mm	68
#16, 1.18mm	64
#30, 0.60mm	58
#40, .425mm	55
#50, .300mm	53
#100, .150mm	49
#200, .075mm	45



**LL:** 27  
**PI:** 11  
**USCS:** SC  
**AASHTO:** A-6(2)

**NOTES:**

**AASHTO Description:** Clayey soils

- The zero air void curve represents a specific gravity of: 2.65 assumed, (also used in the 'Rock Correction Calculation)
- This is a summarized report of the referenced procedures and does not include all reporting requirements. Additional data can be provided at clients request.
- The "Rock Correction" is based on the sieve performed for this sample

**Reviewed by:** JB



# CONTRACT AMENDMENT

**Materials Management  
Procurement**  
8314 W. Cinnabar Ave.  
Peoria, AZ 85345  
Telephone: (623) 773-7115  
Fax: (623) 773-7118

Solicitation No: P08-0055 Page 1 of 2  
Description: Material & Geotechnical Testing Services  
Amendment No: One (1) Date: 04/16/09

Buyer: Christine Finney

- A. In accordance with Special Terms and Conditions, Contract Extension, the above referenced contract is hereby extended. **The new contract term is 08/01/09 to 07/31/10.**
- B. Standard Terms and Conditions are amended to reflect the following changes: Paragraph 3, Applicable Law; Paragraph 19, Right to Audit Records; and Paragraph 32, Public Record, are hereby deleted and replaced with the following:
3. **APPLICABLE LAW:** In the performance of this agreement, contractors shall abide by and conform to any and all laws of the United States, State of Arizona and City of Peoria including but not limited to federal and state executive orders providing for equal employment and procurement opportunities, the Federal Occupational Safety and Health Act and any other federal or state laws applicable to this agreement.

Contractor specifically understands and acknowledges the applicability to it of the Americans with Disabilities Act, the Immigration Reform and Control Act of 1986, and the Drug Free Workplace Act of 1989. In addition, if this agreement pertains to construction, Contractor must also comply with A.R.S. § 34-301, as amended (Employment of Aliens on Public Works Prohibited) and A.R.S. § 34-302, as amended (Residence Requirements for Employees).

Contractor hereby acknowledges receipt and agreement. A signed copy shall be filed with the City of Peoria, Materials Management Division.

     4-22-9      Dean Alford      Converse Consultants  
Signature      Date      Typed Name and Title      Company Name

9831 S. 51<sup>st</sup> st., C-112      Phoenix      AZ      85044  
Address      City      State      Zip Code

Attested by:

Mary Jo Kief, City Clerk

Requested by:

Recommended by:

**Ellen Van Riper, Assistant City Attorney**

Approved as to Form: Stephen M. Kemp, City Attorney

The above referenced Contract Amendment is hereby Executed  
May 15, 2009 at Peoria, Arizona.

Herman F. Koebergen, Materials Manager



City Seal

(Rev 02/01/08)

SCANNED



# CONTRACT AMENDMENT

Solicitation No: P08-0055 Page 2 of 2  
Description: Material & Geotechnical Testing Services  
Amendment No: One (1) Date: 04/16/09

**Materials Management  
Procurement**  
8314 W. Cinnabar Ave.  
Peoria, AZ 85345  
Telephone: (623) 773-7115  
Fax: (623) 773-7118  
Buyer: Christine Finney

Under the provisions of A.R.S. § 41-4401, Contractor hereby warrants to the City that Contractor and each of its subcontractors ("Subcontractors") will comply with, and are contractually obligated to comply with, all Federal immigration laws and regulations that relate to their employees and A.R.S. § 23-214(A) (hereinafter, "Contractor Immigration Warranty").

A breach of the Contractor Immigration Warranty shall constitute a material breach of this agreement and shall subject Contractor to penalties up to and including termination of this agreement at the sole discretion of the City. The City may, at its sole discretion, conduct random verification of the employment records of Contractor and any Subcontractors to ensure compliance with the Contractor Immigration Warranty. Contractor agrees to assist the City in regard to any random verifications performed.

Neither Contractor nor any Subcontractor shall be deemed to have materially breached the Contractor Immigration Warranty if Contractor or the Subcontractor establishes that it has complied with the employment verification provisions prescribed by §§ 274A and 274B of the Federal Immigration and Nationality Act and the E-Verify requirements prescribed by A.R.S. §23-214(A).

The provisions of this Paragraph must be included in any contract Contractor enters into with any Subcontractors who provide services under this agreement or any subcontract. "Services" is defined as furnishing labor, time or effort in the State of Arizona by a contractor or subcontractor. Services include construction or maintenance of any structure, building or transportation facility or improvement to real property.

Contractor warrants, for the term of this agreement and for six months thereafter, that it has fully complied with the requirements of the Immigration Reform and Control Act of 1986 and all related or similar legal authorities.

This contract shall be governed by the City and Contractor shall have all remedies afforded each by the Uniform Commercial Code, as adopted in the State of Arizona, except as otherwise provided in this contract or in statutes pertaining specifically to the City. This contract shall be governed by the laws of the State of Arizona and suit pertaining to this contract may be brought only in courts in the State of Arizona.

This contract is subject to the provisions of ARS §38-511; the City may cancel this contract without penalty or further obligations by the City or any of its departments or agencies if any person significantly involved in initiating, negotiating, securing, drafting or creating the contract on behalf of the City or any of its departments or agencies, is at any time while the contract or any extension of the contract is in effect, an employee of any other party to the contract in any capacity or a consultant to any other party of the contract with respect to the subject matter of the contract.

- 19. RIGHT TO AUDIT RECORDS:** The City may, at reasonable times and places, audit the books and records of any Contractor as related to any contract held with the City. This right to audit also empowers the City to inspect the papers of any Contractor or Subcontractor employee who works on this contract to ensure that the Contractor or Subcontractor is complying with the Contractor Immigration Warranty made pursuant to Paragraph 3 above.
- 32. PUBLIC RECORD:** All offers submitted in response to this solicitation shall become the property of the City and shall become a matter of public record available for review, subsequent to the award notification, in accordance with the City's Procurement Code. However, subsequent to the award of the contract, any information and documents obtained by the City during the course of an audit conducted in accordance with Paragraph 19 above for the purpose of determining compliance by Contractor or a Subcontractor with the Contractor Immigration Warranty mandated by Paragraph 3 above shall remain confidential and shall not be made available for public review or produced in response to a public records request, unless the City is ordered or otherwise directed to do so by a court of competent jurisdiction.



# CONTRACT AMENDMENT

**Materials Management Procurement**  
 8314 West Cinnabar Avenue  
 Peoria, Arizona 85345-6560  
 Phone: (623) 773-7115  
 Fax: (623) 773-7118  
 Buyer: Christine Finney

Solicitation No.: P08-0055  
 Description: Materials and Geotechnical Testing  
 Amendment No.: Two (2) Date: 06/03/2009

The above referenced contract is hereby amended as follows:

**I. Special Provisions** are added to comply with the Requirements for Contracts Utilizing Federal American Recovery and Reinvestment Act of 2009 (ARRA) – WIFA Funding.

**A. Compliance with Davis-Bacon Act (40 U.S.C. §276a-276a-5) Prevailing Wage Requirements (ARRA Section 1606):**

All laborers and mechanics employed by contractors and subcontractors on projects funded directly by or assisted in whole or in part by and the through the Federal Government pursuant to the ARRA shall be paid wages at rates not less than those prevailing on projects of a character similar in the locality as determined by the United States Secretary of Labor in accordance with subchapter IV of chapter 31 of Title 40, United States Code. In addition, all covered contracts shall include the standard contract clauses regarding prevailing wages and benefits included in the United States Department of Labor regulations found at 29 Code of Federal Regulations (“CFR”) § 5.5, which are incorporated by reference in this contract. The contractor shall comply with the requirements of 29 CFR Part 3, which are also incorporated by reference in this Contract.

*[Handwritten Signature]*

*D. Vance Smith*  
 Vice President

*June 24, 09*

Converse Consultants  
 Company Name

Signature

Date

Typed Name and Title

9831 S 51<sup>st</sup> Street, C-112

Phoenix

AZ

85044

Address

City

State

Zip Code

Attested by:

*[Handwritten Signature]*  
 For Mary Jo Kief, City Clerk

*[Handwritten Signature]* 6/5/09  
 Requested by: Dan Nissen, P.E., Assistant City Engineer

*[Handwritten Signature]*  
 Recommended by: Christine Finney, Buyer  
**Ellen Van Riper, Assistant City Attorney**

*[Handwritten Signature]*  
 Approved as to Form: Stephen M. Kemp, City Attorney

The above referenced Contract Amendment is hereby Executed

*[Handwritten Signature]* July 10, 2009; at Peoria, Arizona.

*[Handwritten Signature]*  
 Herman F. Koeborgen, Materials Manager

CC Number

ACON43608B

Contract Number:

Official File



City Seal

(Rev 02/01/08)



## CONTRACT AMENDMENT

### Materials Management Procurement

8314 West Cinnabar Avenue  
Peoria, Arizona 85345-6560

Phone: (623) 773-7115

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Buyer: Christine Finney

Solicitation No.: P08-0055  
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Amendment No.: Two (2) Date: 06/03/2009

The contractor or subcontractors shall insert in any subcontracts the clauses contained in 29 CFR § 5.5(a) (1) through (10) and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR § 5.5.

A breach of the contract clauses in 29 CFR § 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR § 5.12.

All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.

Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the United States Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the City, the State of Arizona ("State"), the United States Department of Labor, or their employees or their representatives.

By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded government contracts by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR § 5.12(a)(1).

No part of this contract shall be subcontracted to any person or firm ineligible for award of a government contract by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR § 5.12(a)(1).

### **B. Use of American Iron, Steel, and Manufactured Goods – Buy American Requirements (ARRA Section 1605):**

The contractor acknowledges to and for the benefit of the City ("Purchaser") and the State that it understands the goods and services under this contract are being funded with monies made available by the ARRA (or are being made available for a project being funded with monies made available by the ARRA) and such law contains provisions commonly known as "Buy American" that require all of the iron, steel, and manufactured goods used in the project be produced in the United States ("Buy American Requirements") including iron, steel, and manufactured goods provided by the Contractor pursuant to this contract. The Contractor hereby represents and warrants to and for the benefit of the Purchaser and the State that (a) the Contractor has reviewed and understands the Buy American Requirements, (b) all of the iron, steel, and manufactured goods used in the project will be and/or have been produced in the United States in a manner that complies with the Buy American Requirements, unless a waiver of the requirements is approved, and (c) the Contractor will provide any further verified information, certification or assurance of compliance with this paragraph, or information necessary to support a waiver of the Buy American Requirements, as may be requested by the Purchaser or the State. Notwithstanding any other provision of this contract, any failure to comply with this paragraph by the Contractor shall permit the Purchaser or State to recover as damages against the Contractor any loss, expense or cost (including without limitation attorney's fees) incurred by the Purchaser or State resulting from any such failure (including without limitation any impairment or loss of funding, whether in whole or in part, from the State or any damages owed to the State by the Purchaser). While the



## CONTRACT AMENDMENT

### Materials Management Procurement

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Buyer: Christine Finney

Solicitation No.: P08-0055  
Description: Materials and Geotechnical Testing  
Amendment No.: Two (2) Date: 06/03/2009

Contractor has no direct contractual privity with the State, as a lender to the Purchaser for the funding of its project, the Purchaser and the Contractor agree that the State is a third-party beneficiary and neither this paragraph (nor any other provision of this contract necessary to give this paragraph force or effect) shall be amended or waived without the prior written consent of the State.

#### **C. Whistleblower Protections Under The ARRA:**

- (a) The Contractor shall post a notice of employees' rights and remedies for whistleblower protections provided under Section 1553 of the ARRA (Pub. L. 111-5).
- (b) The Contractor shall require that this provision be included in all subcontracts.

#### **D. Reporting Requirements under the ARRA:**

- (a) This Contract requires the Contractor to provide products and/or services that are funded under the ARRA. Section 1512(c) of the ARRA requires each contractor to report on its use of Recovery Act funds under this Contract. These reports will be made available to the public.
- (b) Reports from contractors for all work funded, in whole or in part, by the ARRA, and for which an invoice is submitted prior to June 30, 2009, are due no later than July 10, 2009. Thereafter, reports shall be submitted no later than the 10th day after the end of each calendar quarter.
- (c) The Contractor shall report the following information, using the online reporting tool available at [www.FederalReporting.gov](http://www.FederalReporting.gov):
  - (1) The City of Peoria contract and order number, as applicable.
  - (2) The amount of ARRA funds invoiced by the Contractor for the reporting period.
  - (3) A list of all significant services performed or supplies delivered, including construction, for which the Contractor invoiced in the calendar quarter.
  - (4) Program or project title, if any.
  - (5) A description of the overall purpose and expected outcomes or results of the Contract, including significant deliverables and, if appropriate, associated units of measure.
  - (6) An assessment of the Contractor's progress towards the completion of the overall purpose and expected outcomes or results of the Contract (*i.e.*, not started, less than 50 percent completed, completed 50 percent or more, or fully completed). This covers the Contract (or portion thereof) funded by the ARRA.
  - (7) A narrative description of the employment impact of work funded by the ARRA. This narrative should be cumulative for each calendar quarter and only address the impact on the Contractor's workforce. At a minimum, the Contractor shall provide—
    - (i) A brief description of the types of jobs created and jobs retained in the United States and outlying areas (see definition in Federal Acquisition Regulation (FAR) 2.101). This description may rely on job titles, broader labor categories, or the Contractor's existing practice for describing jobs as long as the terms used are widely understood and describe the general nature of the work; and
    - (ii) An estimate of the number of jobs created and jobs retained by the prime contractor, in the United States and outlying areas. A job cannot be reported as both created and retained.
  - (8) Names and total compensation of each of the five most highly compensated officers of the Contractor for the calendar year in which the Contract is awarded if—
    - (i) In the Contractor's preceding fiscal year, the Contractor received—
      - (A) 80 percent or more of its annual gross revenues from Federal contracts (and subcontracts), loans, grants (and subgrants) and cooperative agreements; and



## CONTRACT AMENDMENT

### Materials Management Procurement

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Buyer: Christine Finney

Solicitation No.: P08-0055  
Description: Materials and Geotechnical Testing  
Amendment No.: Two (2) Date: 06/03/2009

(B) \$25,000,000 or more in annual gross revenues from Federal contracts (and subcontracts), loans, grants (and subgrants) and cooperative agreements; and

(ii) The public does not have access to information about the compensation of the senior executives through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986.

(9) For subcontracts valued at less than \$25,000 or any subcontracts awarded to an individual, or subcontracts awarded to a subcontractor that in the previous tax year had gross income under \$300,000, the Contractor shall only report the aggregate number of such first tier subcontracts awarded in the quarter and their aggregate total dollar amount.

(10) For any first-tier subcontract funded in whole or in part under the ARRA, that is over \$25,000 and not subject to reporting under paragraph 9, the Contractor shall require the subcontractor to provide the information described in (i), (ix), (x), and (xi) below to the Contractor for the purposes of the quarterly report. The Contractor shall advise the subcontractor that the information will be made available to the public as required by Section 1512 of the ARRA. The Contractor shall provide detailed information on these first-tier subcontracts as follows:

(i) Unique identifier (DUNS Number) for the subcontractor receiving the award and for the subcontractor's parent company, if the subcontractor has a parent company.

(ii) Name of the subcontractor.

(iii) Amount of the subcontract award.

(iv) Date of the subcontract award.

(v) The applicable North American Industry Classification System (NAICS) code.

(vi) Funding agency.

(vii) A description of the products or services (including construction) being provided under the subcontract, including the overall purpose and expected outcomes or results of the subcontract.

(viii) Subcontract number (the contract number assigned by the prime contractor).

(ix) Subcontractor's physical address including street address, city, state, and country. Also include the nine-digit zip code and congressional district if applicable.

(x) Subcontract primary performance location including street address, city, state, and country. Also include the nine-digit zip code and congressional district if applicable.

(xi) Names and total compensation of each of the subcontractor's five most highly compensated officers, for the calendar year in which the subcontract is awarded if—

(A) In the subcontractor's preceding fiscal year, the subcontractor received—

(1) 80 percent or more of its annual gross revenues in Federal contracts (and subcontracts), loans, grants (and subgrants), and cooperative agreements; and

(2) \$25,000,000 or more in annual gross revenues from Federal contracts (and subcontracts), loans, grants (and subgrants), and cooperative agreements; and

(B) The public does not have access to information about the compensation of the senior executives through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986.

#### **E. Central Contractor Registration Required:**

(a) The Contractor is required to properly register and maintain an updated registration with the Central Contractor Registration (CCR), which is the primary Federal Government repository for contractor information required for the conduct of business with the Federal Government. The requirements for such registration are set forth in the Federal Acquisition Regulation (FAR), including the establishment



## CONTRACT AMENDMENT

### Materials Management Procurement

8314 West Cinnabar Avenue  
Peoria, Arizona 85345-6560  
Phone: (623) 773-7115  
Fax: (623) 773-7118  
Buyer: Christine Finney

**Solicitation No.:** P08-0055  
**Description:** Materials and Geotechnical Testing  
**Amendment No.:** Two (2)      **Date:** 06/03/2009

of a "Data Universal Numbering System (DUNS) number," the 9-digit number assigned by Dun and Bradstreet, Inc. (D&B) to identify unique business entities.

(b) "Registered in the CCR database" means that—

(1) The Contractor has entered all mandatory information, including the DUNS number or the DUNS+4 number, into the CCR database; and

(2) The Federal Government has validated all mandatory data fields, to include validation of the Taxpayer Identification Number (TIN) with the Internal Revenue Service (IRS), and has marked the record "Active". The Contractor will be required to provide consent for TIN validation to the Government as a part of the CCR registration process.

(c) The DUNS number will be used by the City to verify that the Contractor is registered in the CCR database.

(d) If the Contractor does not become registered in the CCR database in the time prescribed by the City, the City will proceed to award the Contract to the next otherwise successful registered responding entity.

(e) The Contractor is responsible for the accuracy and completeness of the data within the CCR database, and for any liability resulting from the City's reliance on inaccurate or incomplete data. To remain registered in the CCR database after the initial registration, the Contractor is required to review and update on an annual basis from the date of initial registration or subsequent updates its information in the CCR database to ensure it is current, accurate and complete. Updating information in the CCR does not alter the terms and conditions of this Contract and is not a substitute for a properly executed contractual document.



# CONTRACT AMENDMENT

**Materials Management  
Procurement**

9875 N 85<sup>th</sup> Ave, 2<sup>nd</sup> Fl  
Peoria, AZ 85345

Telephone: (623) 773-7115  
Fax: (623) 773-7118

Solicitation No P08-0055 Page 1 of 1  
Description Material & Geotechnical Testing Services  
Amendment No Three (3) Date 3/29/2010

Buyer Christine Finney

In accordance with Special Terms and Conditions, Contract Extension, the above referenced contract shall expire on 7/31/10. **CONTRACT EXTENSION TWO (2)**

The New Contract Term Is

**Contract Term: 08/01/10 To 07/31/11**

Contractor hereby acknowledges receipt and agreement. A signed copy shall be filed with the City of Peoria, Materials Management Division

*Pamela Keith*  
Signature

*4/12/10*  
Date

*Pamela Keith*  
~~Dean Afford~~ Secretary  
Typed Name and Title

Converse Consultants  
Company Name

9831 S 51<sup>st</sup> St, C-112  
Address

Phoenix  
City

AZ  
State

85044  
Zip Code

Attested by

*Mary Jo Waddell*

Mary Jo Waddell, City Clerk

Requested by

*Christine Finney* *3/31/10*  
Recommended by *4-1-10*

*Ellen Van Riper*, Assistant City Attorney

Approved as to Form *Stephen M Kemp*, City Attorney

The above referenced Contract Amendment is hereby Executed

*April 16*, 2010, at Peoria, Arizona

*Herman F Koebergen*  
Herman F Koebergen, Materials Manager



CC Number

ACON43608C

Contract Number

Official File

City Seal

(Rev 02/11/10)