



# Offer and Acceptance

State of Arizona  
State Procurement Office  
100 N. 15<sup>th</sup> Ave. Suite 201  
Phoenix, AZ 85007

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

PAGE  
1

Offeror: Ninyo & Moore Geotechnical and  
Environmental Sciences Consultants

OF  
1

## OFFER

### TO THE STATE OF ARIZONA:

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

Ninyo & Moore Geotechnical and Environmental Sciences Consultants  
Company Name

*Steven D. Nowaczyk*  
Signature of Person Authorized to Sign Offer

3202 East Harbour Drive  
Address

Steven D. Nowaczyk  
Printed Name

Phoenix Arizona 85034  
City State Zip

Managing Principal Engineer  
Title

Phone: 602-243-1600

SNowaczyk@ninyoandmoore.com  
Contact Email Address

Fax: 602-243-2699

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

1. The submission of the Offer did not involve collusion or other anticompetitive practices.
2. The Offeror shall not discriminate against any employee or applicant for employment in violation of Federal Executive Order 11246, State Executive Order 2009-9 or A.R.S. §§ 41-1461 through 1465.
3. The Offeror has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted offer. Failure to provide a valid signature affirming the stipulations required by this clause shall result in rejection of the offer. Signing the offer with a false statement shall void the offer, any resulting contract and may be subject to legal remedies provided by law.
4. The Offeror certifies that the above referenced organization    IS/  IS NOT a small business with less than 100 employees or has gross revenues of \$4 million or less.

## ACCEPTANCE OF OFFER

The Offer is hereby accepted.

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

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

The effective date of the Contract is March 1, 2016

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

State of Arizona  
Awarded this 29 day of February 2016

*[Signature]*

Procurement Officer



**ADOA**  
ARIZONA DEPARTMENT OF ADMINISTRATION

**Arizona Department of Administration**  
Arizona State Procurement Office  
100 North 15th Avenue, Suite 201  
Phoenix, Arizona 85007

# Statement of Qualifications

## 2016 Annual Professional Services List

### Solicitation No. ADSP016-00005912



December 21, 2015 | 12PHX02-00621

**Ninyo & Moore**  
Experience · Quality · Commitment

December 21, 2015  
Ninyo & Moore Proposal No. 12-00621

Arizona Department of Administration  
Arizona State Procurement Office  
100 North 15<sup>th</sup> Avenue, Suite 201  
Phoenix, Arizona 85007

Subject: **Request for Qualifications**  
**2016 Annual Professional Services List**  
**Solicitation No. ADSP016-00005912**

Dear Selection Team Members:

Ninyo & Moore is pleased to submit our statement of qualifications for the subject opportunity. It is our goal to be selected as the firm of choice to provide the Arizona Department of Administration with as needed **Engineering and Geologist Services**. Upon review of our qualifications, we trust that you will find Ninyo & Moore is well qualified and experienced to offer these services.

Ninyo & Moore will bring the following benefits to the Arizona Department of Administration:

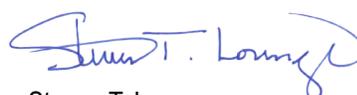
- Response:** Ninyo & Moore is willing and able to respond quickly to virtually any need. We are quite accustomed to responding on little to no notice with the ability to staff a project with the properly qualified personnel. With offices in Phoenix, Tucson, Prescott Valley, and Flagstaff we are well positioned to service you in an efficient cost effective manner.
- Quality Assurance/Quality Control:** Ninyo & Moore's geotechnical, environmental, and construction materials testing and inspection consulting services are rendered in strict compliance to the firm's rigorous Quality Assurance/Quality Control program, which exceeds the general expectations of the industry. Our field and laboratory staff professionals participate in technician certification programs such as, ACI, ATTI, ICC, and AWS.
- Laboratories:** Ninyo & Moore laboratories are supervised by registered civil engineers and meet the general requirements of ASTM E329, ASTM C1077, ASTM D3740, and ASTM D3666. Ninyo & Moore's testing equipment is calibrated annually with equipment traceable to the National Institute of Standards and Technology. Ninyo & Moore's testing laboratories are inspected and/or accredited by the Arizona Department of Transportation (ADOT), American Association of State Highway and Transportation Officials (AASHTO), Cement and Concrete Reference Laboratory (CCRL), the City of Phoenix and the U.S. Army Corps of Engineers.
- History:** Ninyo & Moore was established 29 years ago to help clients develop and implement innovative solutions to geotechnical, construction materials testing, and environmental challenges. Ninyo & Moore has been providing services to the Arizona market since 1998 and has worked on numerous projects throughout Arizona.

From principal staff through administrative and field personnel, Ninyo & Moore is committed to providing the Arizona Department of Administration and its' staff members with a level of service that we hope goes above and beyond expectations. This commitment will extend throughout the life of the contract.

Sincerely,  
**NINYO & MOORE**



Steven D. Nowaczyk, PE  
Managing Principal Engineer  
[SNowaczyk@NinyoandMoore.com](mailto:SNowaczyk@NinyoandMoore.com)



Steven T. Lorenzo  
Principal/Business Development Manager  
[SLorenzo@NinyoandMoore.com](mailto:SLorenzo@NinyoandMoore.com)

SDN/STL/cj

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

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

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

1. Annual Request for Qualifications

a. FIRM (OR BRANCH OFFICE ) NAME:	Ninyo & Moore Geotechnical and Environmental Sciences Consultants
b. FIRM (OR BRANCH OFFICE) STREET:	3202 East Harbour Drive
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85034
f. YEAR ESTABLISHED:	1986
(g1). OWNERSHIP - TYPE:	S-type Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	N/A
h. POINT OF CONTACT NAME AND TITLE:	Steven D. Nowaczyk Managing Principal Engineer
i. POINT OF CONTACT TELEPHONE NUMBER:	602-243-1600
j. POINT OF CONTACT E-MAIL ADDRESS:	SNowaczyk@NinyoandMoore.com
k. NAME OF FIRM (If block 1a is a branch office):	Ninyo & Moore Geotechnical and Environmental Sciences Consultants



**ATTACHMENT I – General Qualifications**  
**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:**  
**ADSPO16-00005912**

**STATE PROCUREMENT OFFICE**  
**Department of Administration**  
**100 North 15<sup>th</sup> Avenue, Suite 201**  
**Phoenix, Arizona 85007**

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

**1. Annual Request for Qualifications**

g. FIRM (OR BRANCH OFFICE ) NAME:	Ninyo & Moore Geotechnical and Environmental Sciences Consultants
h. FIRM (OR BRANCH OFFICE) STREET:	1991 E. Ajo Way, Suite 145
i. FIRM (OR BRANCH OFFICE) CITY:	Tucson
j. FIRM (OR BRANCH OFFICE) STATE:	Arizona
k. FIRM (OR BRANCH OFFICE) ZIP CODE:	85713

l. YEAR ESTABLISHED:	1986
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(g1). OWNERSHIP - TYPE:	S-type Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	N/A

h. POINT OF CONTACT NAME AND TITLE:	Steven D. Nowaczyk Managing Principal Engineer
i. POINT OF CONTACT TELEPHONE NUMBER:	602-243-1600
j. POINT OF CONTACT E-MAIL ADDRESS:	SNowaczyk@NinyoandMoore.com

k. NAME OF FIRM <i>(If block 1a is a branch office):</i>	Ninyo & Moore Geotechnical and Environmental Sciences Consultants
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**Phoenix, Arizona 85007**

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

**1. Annual Request for Qualifications**

m. FIRM (OR BRANCH OFFICE ) NAME:	Ninyo & Moore Geotechnical and Environmental Sciences Consultants
n. FIRM (OR BRANCH OFFICE) STREET:	8281 E. Jacque Drive, Suite B
o. FIRM (OR BRANCH OFFICE) CITY:	Prescott Valley
p. FIRM (OR BRANCH OFFICE) STATE:	Arizona
q. FIRM (OR BRANCH OFFICE) ZIP CODE:	86314

r. YEAR ESTABLISHED:	1986
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(g1). OWNERSHIP - TYPE:	S-type Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	N/A

h. POINT OF CONTACT NAME AND TITLE:	Steven D. Nowaczyk Managing Principal Engineer
i. POINT OF CONTACT TELEPHONE NUMBER:	602-243-1600
j. POINT OF CONTACT E-MAIL ADDRESS:	SNowaczyk@NinyoandMoore.com

k. NAME OF FIRM <i>(If block 1a is a branch office):</i>	Ninyo & Moore Geotechnical and Environmental Sciences Consultants
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**Phoenix, Arizona 85007**

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

**1. Annual Request for Qualifications**

s. FIRM (OR BRANCH OFFICE ) NAME:	Ninyo & Moore Geotechnical and Environmental Sciences Consultants
t. FIRM (OR BRANCH OFFICE) STREET:	516 North Humphreys Street
u. FIRM (OR BRANCH OFFICE) CITY:	Flagstaff
v. FIRM (OR BRANCH OFFICE) STATE:	Arizona
w. FIRM (OR BRANCH OFFICE) ZIP CODE:	86001

x. YEAR ESTABLISHED:	1986
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(g1). OWNERSHIP - TYPE:	S-type Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	N/A

h. POINT OF CONTACT NAME AND TITLE:	Steven D. Nowaczyk Managing Principal Engineer
i. POINT OF CONTACT TELEPHONE NUMBER:	602-243-1600
j. POINT OF CONTACT E-MAIL ADDRESS:	SNowaczyk@NinyoandMoore.com

k. NAME OF FIRM <i>(If block 1a is a branch office):</i>	Ninyo & Moore Geotechnical and Environmental Sciences Consultants
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**2. EMPLOYEES BY DISCIPLINE**

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
CADD Technician	P	6	2
Civil Engineer	P	1	0
Construction Inspector	P	46	2
Environmental Engineer	P	23	4
Environmental Scientist	P	24	2
Geographic Information System Specialist	P	1	0
Geologist	P	43	3
Hydrogeologist	P	1	0
Industrial Engineer	P	1	0
Mechanical Engineer	P	1	0
Project Manager	P	13	2
Soils Engineer	P	40	9
Technician Analyst	P	103	24
Other	P	87	13
<b>Total</b>		<b>390</b>	<b>61</b>



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Phoenix, Arizona 85007**

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

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number <i>(see below)</i>
42	Air Quality	4
81	Airports; Terminals and Hangars; Freight Handling	6
22	Bridge Design; Bridges	6
82	Commercial Building (Low Rise); Shopping Centers	5
4	Construction Management	4
911	Construction Materials Testing	9
16	Dams (Earth; Rock); Dikes; Levees	5
47	Design-Build – Preparation of Requests for Proposals	6
43	Design and Planning Structured Parking Facilities	5
469	Educational Facilities; Classrooms	8
54	Electrical Studies and Design	7
127	Energy Conservation; New Energy Sources	7
427	Environmental Impact Studies, Assessments of Statements	7
233	Forensic Engineering	6
420	Highways; Streets; Airfield Paving; Parking Lots	8
72	Hospital and Medical Facilities	5
18	Hotels; Motels	4
364	Housing (Residential; Multi-Family, Apartments, Condominiums)	7
138	Industrial Buildings; Manufacturing Plants	6
24	Judicial and Courtroom Facilities	2
5	Libraries; Museums; Galleries	1
911	Materials Testing	9
24	Mining and Mineralogy	3
23	Mold Investigation	3
163	Pipelines (Cross-Country – Liquid and Gas)	7



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336	Phase I Environmental	6
3	Prisons and Correctional Facilities	1
17	Railroad; Rapid Transit	4
106	Recreation Facilities (Parks, Marinas, etc.)	5
45	Rehabilitation (Buildings, Structures, Facilities)	5
11	Seismic Designs and Studies	2
113	Sewage Collection; Treatment and Disposal	6
127	Soils and Geologic Studies; Foundation	7
74	Solar Energy Utilization	5
38	Solid Wastes; Incineration; Landfill	5
45	Surveying; Platting; Flood Plain Studies	7
61	Storm Water Handling and Facilities	6
911	Testing and Inspection Services	9
28	Traffic and Transportation Engineering	6
28	Transportation	6
13	Tunnels and Subways	4
36	Value Analysis; Life-Cycling Costing	3
73	Water Resources; Hydrology; Groundwater	6
44	Water Supply; Treatment and Distribution	4
16	Waste Water Treatment Facility	2

**PROFESSIONAL SERVICES REVENUE INDEX NUMBER**

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



**ATTACHMENT I – General Qualifications**

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ADSP016-00005912**

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Department of Administration  
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Phoenix, Arizona 85007**

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

<b>a. NAME</b> Steven D. Nowaczyk, PE	<b>b. ROLE IN THIS CONTRACT</b> Managing Principal Engineer	<b>c. YEARS EXPERIENCE</b>	
		1. TOTAL 25	2. WITH CURRENT FIRM 16
<b>d. LOCATION</b> <i>(City and State)</i> Phoenix, Arizona			
<b>e. EDUCATION</b> <i>(DEGREE AND SPECIALIZATION)</i> M.S., Geotechnical Engineering, 1994, University of Michigan B.S., Civil Engineering, 1990, Michigan State University		<b>f. PROFESSIONAL TRAINING - REGISTRATIONS</b> PE 34866 (Arizona), PE 19584 (New Mexico), PE 42018 (Colorado), PE 42103 (Michigan), NCEES 36667	
<b>g. OTHER PROFESSIONAL QUALIFICATIONS</b> <i>(Organizations, Awards, etc.)</i> 2012 Engineer of the Year Award for Arizona Engineers Week, American Society of Civil Engineers, American Society of Professional Engineers, Association of State Dam Safety Officials			

**H. RELEVANT PROJECTS**

	<b>(1) TITLE AND LOCATION</b> <i>(City and State)</i>	<b>(2) YEAR COMPLETED</b>	
		Professional Services	Construction (if applicable)
1.	<b>Flood Control District of Maricopa County, Vineyard Flood Retarding Structure &amp; Rittenhouse Levee</b> Apache Junction, Arizona	Ongoing	
	<b>(3) BRIEF DESCRIPTION</b> <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The Powerline, Vineyard Road, and Rittenhouse FRSs were three of more than 6,300 dams authorized as part of the Watershed Protection and Flood Prevention Act of 1954, commonly referred to as the Small Watershed Program (Public Law [PL] 83-566). These three dams were designed to protect portions of eastern Maricopa County including Mesa, and the towns of Queen Creek and Higley from flood waters originating from the Superstition Mountains. Currently the three dams provide significant flood control and erosion protection for downstream residential, commercial, industrial, and agricultural properties within Pinal County (from the dams to Meridian Road) and Maricopa County (from Meridian Road to the East Maricopa Floodway).  Ninyo & Moore is currently in the process of performing geotechnical explorations to achieve design-level investigation data, with Steve being the Project Manager. His responsibilities include the oversight of conducting field investigations and laboratory testing; subsurface exploration including soil borings and test pit excavations; data compilation and analysis; and preparation of a Geotechnical Report summarizing our engineering analysis and methodologies associated with the geotechnical aspects of the first phase of design and construction associated with Vineyard Road FRS. Specific analysis included foundation limits, seepage, stability, filter sand, and geotextile evaluation. <i>Ninyo &amp; Moore Fees: \$39,971+</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	<b>White Tanks Flood Retarding Structure No. 4 Rehabilitation Project</b> Buckeye, Arizona	2015	
	<b>(3) BRIEF DESCRIPTION</b> <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager and Principal for the remediation design and engineering support of the White Tanks Flood Retarding Structure (FRS) No. 4 rehabilitation project for the Flood Control District of Maricopa County located within western Maricopa County, Arizona. The purpose of the project was to repair documented deficiencies associated with the FRS including horizontal and transverse cracking through the FRS embankment, removal and replacement of principal outlets so that they meet current design standards, embankment modifications to accommodate increased floodpool storage, re-grading existing floodpool to eliminate existing dead-storage areas and improvements to the existing auxiliary spillways. Responsibilities included overseeing all background review, field exploration, engineering analyses, design development, preparation of construction drawings, preparation of construction specifications and preparation of construction cost estimates. Design submittals were required and the 30%, 60%, 90% and 100% levels. In addition, NRCS and ADWR reviewed and commented on each design submittal. <i>Ninyo &amp; Moore Fees: \$3,664,000</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	<b>ADOT, Interstate 10, Earley Road to Junction Interstate 8</b> Casa Grande, Arizona	2015	
	<b>(3) BRIEF DESCRIPTION</b> <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Ninyo & Moore was selected by the Arizona Department of Transportation to perform geotechnical engineering services for the Interstate 10 (I-10), Earley Road to Junction Interstate 8 (I-8), located in Casa Grande, Arizona. The overall project included widening of approximately 3.2 miles of I-10, roughly between Earley Road and Junction I-8; ramp improvements, including a "U-Turn" ramp; eastbound and westbound frontage roads; drainage improvements; and construction of new bridge structures, which are Selma Highway Traffic Interchange (TI) Underpass (UP), Selma Highway Canal Bridge, and Jimmie Kerr Boulevard Overpass (OP). The Selma Highway TI UP was a two-span pre-cast structure, approximately 275 feet long and 102 feet wide, and spanned the existing I-10. The Selma Highway Canal Bridge was a single-span pre-cast structure, approximately 140 feet long and 96 feet wide, and spanned the San Carlos Irrigation and Drainage District (SCIDD) canal. The Jimmie Kerr Boulevard OP consisted of two separate structures, each approximately 740 feet long and 60 feet wide, and spanned I-10 and the Union Pacific Railroad (UPRR) mainline. As Project Principal, he provided technical oversight to support staff, which included conducting research into	<input checked="" type="checkbox"/>	Check if project performed with current firm



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Phoenix, Arizona 85007**

previously prepared reports and as-built plans for the highway section under study; reviewed available topographic information, soil surveys, geologic literature, subsidence/earth fissure studies, aerial photographs of the project area, and conducted a field trip to the site for geologic reconnaissance; subsurface explorations; laboratory testing; and preparation of a foundation design report presenting foundation alternative recommendations as well as soil parameters for lateral load analysis. In addition, the report contained vicinity maps depicting the project limits, plans showing the bridge boring locations, narrative descriptions of the surface and subsurface conditions, laboratory test results, and geotechnical recommendations related to the bridge foundations. *Ninyo & Moore Fees: \$190,620*

**(1) TITLE AND LOCATION (City and State)**

**Coconino County, Pinewood Boulevard Pavement and Bridge Evaluation  
Munds Park, Arizona**

**(2) YEAR COMPLETED**

Professional Services  
2015

Construction (if applicable)

**(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE**

Project Principal for a geotechnical evaluation for the pavement improvements on Pinewood Boulevard, as well as assess the foundation conditions of the Munds Canyon Bridge in Munds Park, Arizona. The purpose of our evaluation was to assess the subsurface conditions at the project site in order to formulate geotechnical recommendations for design and construction of the roadway improvements and to assess the Munds Canyon Bridge bearing material. The plan for rehabilitation of Pinewood Boulevard was to remove and replace the full roadway structural section, or to mill and overlay the asphalt concrete. The Munds Canyon Bridge deck was also replaced during the planned construction. He provided technical oversight to support staff, which included conducting a visual geologic reconnaissance of the project area and reviewing readily available aerial photographs and published geologic literature, including maps and reports pertaining to the project site and vicinity; subsurface explorations; laboratory testing; and preparation of a geotechnical evaluation presenting our findings, conclusions, and recommendations regarding the design and construction of the project. *Ninyo & Moore Fees: \$27,600*



Check if project performed with current firm

4.

**(1) TITLE AND LOCATION (City and State)**

**City of Phoenix 107th Avenue Paving Improvements  
Phoenix, Arizona**

**(2) YEAR COMPLETED**

Professional Services  
2015

Construction (if applicable)

**(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE**

Ninyo & Moore was selected by the City of Phoenix through our on-call contract to perform a geotechnical evaluation for the proposed 107th Avenue Paving Improvements project that consisted of roadway and utility improvements along 107th Avenue from Indian School Road to Camelback Road in Phoenix, Arizona. The purpose of our evaluation was to assess subsurface conditions at the project site in order to provide geotechnical recommendations for design and construction. The roadway improvements included new pavements, sidewalk, and curb and gutter. The new storm drain pipeline is planned to traverse eastward along Indian School Road for approximately 100 feet. As Project Principal for this project, he provided technical oversight to support staff, which generally included reviewing readily available aerial photographs and published geologic literature, including maps and reports pertaining to the project site and vicinity; subsurface explorations; laboratory testing on selected samples obtained from the soil borings to evaluate in-situ moisture content and dry density, gradation, Atterberg limits, and corrosivity characteristics (including pH, minimum electrical resistivity, and soluble sulfate and chloride contents); and preparation of a geotechnical evaluation report presenting our findings, conclusions, and recommendations regarding the design and construction of the project. *Ninyo & Moore Fees: \$14,000*



Check if project performed with current firm

5.



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100 North 15<sup>th</sup> Avenue, Suite 201  
Phoenix, Arizona 85007**

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

a. NAME <b>Marek J. Kasztalski, PE, LEED AP</b>	b. ROLE IN THIS CONTRACT <b>Senior Geotechnical Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>38</b>	2. WITH CURRENT FIRM <b>8</b>
d. LOCATION <i>(City and State)</i> Tucson, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.S., Civil Engineering, 1978, Warsaw Technical University		f. PROFESSIONAL TRAINING - REGISTRATIONS PE 44704 (Arizona), PMP 1203712, LEED Accredited Professional	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> American Society of Civil Engineers, Arizona Society of Professional Engineers, Project Management Institute, Society of American Military Engineers, Society of Mining, Metallurgy and Exploration			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Mt. Lemmon Water Reclamation Facility Summerhaven, Arizona</b>	(2) YEAR COMPLETED
		Professional Services 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for geotechnical engineering services pertaining to the natural rock slope at the Mt. Lemmon Water Reclamation Facility (WRF) owned and operated by the Pima County Regional Wastewater Reclamation Department (RWRD) in Summerhaven, Arizona. The WRF site is an approximate 10,000 square feet square-shaped site located on a mountain side that slopes down to the east and south. The purpose of our services was to evaluate the geotechnical conditions at the project site in order to prepare conceptual design alternatives to mitigate slope degradation and nuisance to the WRF. His responsibilities for this phase of the project generally included background review; visiting the project site in order to prepare a geotechnical exploration plan; performing field exploration which included measuring the slope height, length, and inclination, using hand-held equipment, evaluation of the soils overlying the bedrock, subsurface explorations, and evaluation of the condition of the rock slope face by visual observations of the weathering extent and depth; laboratory testing; performing analyses on the collected data in order to develop rock slope face stabilization design concepts; and preparation of a rock slope stability report presenting the results and findings from the geotechnical evaluation and geotechnical assessment of the site as well as conceptual drawings of the proposed design solutions for review by the project stakeholders. <i>Ninyo &amp; Moore Fees: \$30,300</i>	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>City of Tucson 6<sup>th</sup> Street &amp; Speedway Boulevard Pavement Reconstruction Tucson, Arizona</b>	(2) YEAR COMPLETED
		Professional Services 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for a project that we were selected by the City of Tucson to perform geotechnical services for the 6 <sup>th</sup> Street and Speedway Boulevard Pavement Reconstruction project in Tucson, Arizona. The purpose of our services was to sample and test the subgrade soils within the project site. The City of Tucson has identified several routes of the existing street network for reconstruction under the Road Recovery Program. The scope of work for this project included 2 miles of roadway segments from the Reconstruct Package. His responsibilities for the project generally included preparing a field testing plan and associated permit applications for submittal to the City of Tucson; conducting a visual reconnaissance; subsurface explorations; laboratory testing; and preparation of a pavement evaluation report presenting the results of our field exploration and laboratory testing and recommendations for new pavement structural sections within the project limits. <i>Ninyo &amp; Moore Fees: \$35,000</i>	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>APS, Cholla Steam Electrical Station Joseph City, Arizona</b>	(2) YEAR COMPLETED
		Professional Services 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for a project that we were selected by APS to provide a geotechnical evaluation for the improvements at the Cholla Steam Electric Station facility in Joseph City, Arizona. The purpose of our evaluation was to assess the subsurface conditions at the site in order to provide geotechnical recommendations for design and construction. The project consisted of the design and construction of three new activated carbon injection (ACI) silos for the existing Cholla Steam Electric Station Units 1, 3, and 4. The units were anticipated to be approximately 14 feet in diameter and 55 to 69 feet tall. His responsibilities for the project included background review; geophysical surveys; subsurface explorations; laboratory testing; and preparation of a geotechnical evaluation report presenting our findings, conclusions, and geotechnical recommendations regarding the design and construction of the improvements. <i>Ninyo &amp; Moore Fees: \$16,000</i>	<input checked="" type="checkbox"/> Check if project performed with current firm



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4.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>Casa Grande Municipal Airport</b> <b>Casa Grande, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE Project Manager for the geotechnical services for the Casa Grande Municipal Airport, Taxiway E Rehabilitation project in Casa Grande, Arizona. The purpose of our evaluation was to assess the subsurface conditions at the project site. Responsibilities included background review; subsurface explorations, laboratory testing, and preparation of a geotechnical data report presenting our methodology and findings regarding the geotechnical conditions at the project site. The portion of the site covered by our evaluation generally consisted of an asphaltic concrete (AC) paved airport taxiway, denoted as Taxiway E. Other airport facilities in the project area generally included the runway, taxiways, and aprons with associated buildings, hangars, driveways, and parking lots. <i>Ninyo &amp; Moore Fees: \$18,000</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>ADOT, Mariposa Land Port of Entry Pedestrian Crossing</b> <b>Nogales, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE Project Manager for a geotechnical and materials design evaluation for the planned construction of the pedestrian undercrossing at the Mariposa Land Port of Entry (LPOE) in Nogales, Arizona. The planned improvements included construction of a subsurface reinforced concrete pedestrian undercrossing along SR 189 (Mariposa Road) and existing pavement replacement. The purpose of our evaluation was to provide recommendations for the proposed design and construction. The project is located at the Mariposa LPOE, near the United States-Mexico International Border, and consists of the construction of a pedestrian undercrossing along east side of SR 189. The scope of our services for this phase of the project generally included background review; subsurface explorations; laboratory testing; preparation of a geotechnical evaluation report presenting our field procedures and provides a discussion on the geologic setting and potential geologic hazards as well as recommendations for foundation design and construction; and preparation of a materials design report presenting the replacement pavement section. <i>Ninyo &amp; Moore Fees: \$22,600</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm



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

<b>a. NAME</b> Kirstin L. Tvedten, PE, ACI, ATTI	<b>b. ROLE IN THIS CONTRACT</b> Project Engineer	<b>c. YEARS EXPERIENCE</b>	
		1. TOTAL 9	2. WITH CURRENT FIRM 6
<b>d. LOCATION</b> <i>(City and State)</i> Phoenix, Arizona			
<b>e. EDUCATION</b> <i>(DEGREE AND SPECIALIZATION)</i> B.S., Civil Engineering, 2005, University of Wisconsin		<b>f. PROFESSIONAL TRAINING - REGISTRATIONS</b> PE 53421 (Arizona), ACI Concrete Field Testing Grade 1, ACI Concrete Strength Testing Technician, ADOT approved Asphaltic Concrete Mix Design Engineer, ATTI Field Certification, ATTI Asphalt Certification, ATTI Soils/Aggregate Level I Certification, Radiation Safety Training for Moisture/Density Gauge Operators Certification	
<b>g. OTHER PROFESSIONAL QUALIFICATIONS</b> <i>(Organizations, Awards, etc.)</i> Arizona Rock Products Association, Arizona Society of Civil Engineers			

**H. RELEVANT PROJECTS**

	<b>(1) TITLE AND LOCATION</b> <i>(City and State)</i>	<b>(2) YEAR COMPLETED</b>	
		Professional Services	Construction (if applicable)
1.	<b>City of Phoenix Pueblo Grande Museum</b> Phoenix, Arizona	2014	
	<b>(3) BRIEF DESCRIPTION</b> <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for a project where we were selected by the City of Phoenix to perform a geotechnical evaluation for the proposed structure and site improvements at the Pueblo Grande Museum located in Phoenix, Arizona. The purpose of our evaluation was to assess the subsurface conditions at the project site in order to formulate geotechnical recommendations for design and construction. The project consisted of the design and construction of a new masonry structure with a footprint of about 300 square feet, masonry site walls, and associated sidewalks. Her responsibilities for the project generally included background review; conducting a visual geologic reconnaissance of the project area and marking our boring locations in the field; subsurface explorations; laboratory testing; and preparation of a geotechnical evaluation report presenting our findings, conclusions, and recommendations regarding the design and construction of the project. <i>Ninyo &amp; Moore Fees: \$9,000</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	<b>Arizona General Hospital</b> Mesa, Arizona	2015	
	<b>(3) BRIEF DESCRIPTION</b> <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for materials testing and inspection services for the Arizona General Hospital ER project in Mesa, Arizona. Ninyo & Moore provided materials testing and inspection services for improvements to an existing building, and parking area. Her responsibilities for the construction phase of the project included observation, testing, and sampling during the placement of soil, aggregate base, masonry, concrete, and asphalt; special inspection of concrete and masonry reinforcing as well as structural steel, high strength bolting, and welding; laboratory testing of soil, aggregate base, masonry, concrete, and asphalt materials; and project management, data processing, and report review services of laboratory and field test reports. <i>Ninyo &amp; Moore Fees: \$8,200</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	<b>Chandler-Gilbert Community College, Williams Campus - Engel Hall Building</b> Mesa, Arizona	2014	
	<b>(3) BRIEF DESCRIPTION</b> <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for a geotechnical evaluation for the Chandler-Gilbert Community College, Williams Campus - Engel Hall building, which is located at 7418 East Tahoe Avenue in Mesa, Arizona. The purpose of our study was to evaluate the cause(s) of manifested damages to the flooring within the facility from a geotechnical standpoint. She performed site visits to evaluate underground utility locations, a subsurface evaluation, and vapor emission tests (VETs) and relative humidity (RH) tests. The subsurface evaluation consisted of the excavation of two exterior small-diameter exploratory borings to depths of approximately 20 feet below ground surface (bgs), excavation of two interior concrete cores through the concrete slab-on-grade to depth up to 2 feet bgs, the installation of 10 calcium chloride VETs on the surface of the interior floor slab of the building, and five RH sensors in the concrete floor slab. Her responsibilities also included laboratory testing and preparation of a geotechnical evaluation presenting our findings, conclusions, and recommendations for the project. <i>Ninyo &amp; Moore Fees: \$12,500</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm



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4.	<p>(1) TITLE AND LOCATION (<i>City and State</i>) <b>Vekol Regional Park Infrastructure Improvements</b> <b>Maricopa, Arizona</b></p> <p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Engineer and ADOT S7 level Quality Control Technician (QCT) for a project that we were selected by the City of Maricopa on. The QCT was on-site during all construction activities, observed the work performed, prepared as-built project plans, performed inspections, and sampled materials. The Project Engineer reviewed submittals, held weekly construction meetings, verified that the work was performed in accordance with the approved ADOT Permit Plans and Specifications, and finalized as-built project plans and project documents for submission to ADOT. Ninyo &amp; Moore provided additional QCT's as needed to perform testing and sampling services. The project consisted of road widening and drainage improvements on State Route 347 and Martin Luther King Jr. Boulevard. <i>Ninyo &amp; Moore Fees: \$95,600</i></p>	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
5.	<p>(1) TITLE AND LOCATION (<i>City and State</i>) <b>Anthem West Water &amp; Wastewater Infrastructure Expansion Project</b> <b>Phoenix, Arizona</b></p> <p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager for a geotechnical evaluation for the Anthem West Water &amp; Wastewater Infrastructure Expansion Project located in Phoenix, Arizona. The project generally calls for the design and construction of booster pump stations, lift stations, below grade water lines, and below grade sewer lines. The purpose of our study was to provide geotechnical explorations and analysis for the final design of this segment of the project. Her responsibilities included background review; subsurface explorations; laboratory testing; and preparation of a geotechnical evaluation report presenting our findings, conclusions, and recommendations. <i>Ninyo &amp; Moore Fees: \$6,8100</i></p>	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)



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

<b>a. NAME</b> <b>E. Craig Rees</b>	<b>b. ROLE IN THIS CONTRACT</b> <b>Principal/Construction Services Manager</b>	<b>c. YEARS EXPERIENCE</b>	
		<b>1. TOTAL</b> <b>18</b>	<b>2. WITH CURRENT FIRM</b> <b>15</b>
<b>d. LOCATION</b> <i>(City and State)</i> Phoenix, Arizona			
<b>e. EDUCATION</b> <i>(DEGREE AND SPECIALIZATION)</i> B.S., Civil Engineering, 2011, Arizona State University A.A., Mechanical Engineering, 1996, BYU Idaho		<b>f. PROFESSIONAL TRAINING - REGISTRATIONS</b> <i>Radiation Safety Training for Moisture/Density Gauge Operators Certification</i>	
<b>g. OTHER PROFESSIONAL QUALIFICATIONS</b> <i>(Organizations, Awards, etc.)</i> <i>Arizona Rock Products Association, American Concrete Institute</i>			

**H. RELEVANT PROJECTS**

	<b>(1) TITLE AND LOCATION</b> <i>(City and State)</i>	<b>(2) YEAR COMPLETED</b>		
		Professional Services	Construction (if applicable)	
1.	<b>City of Prescott, Lincoln Avenue Water &amp; Sewer Improvements</b> Prescott, Arizona	2015		
	<b>(3) BRIEF DESCRIPTION</b> <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Principal for a project that Ninyo & Moore was selected by the City of Prescott to provide construction materials testing on the Lincoln Avenue Water and Sewer Improvements project located in Prescott, Arizona. This project was Phase 2 of the Small Water Mains Project. This project generally consisted of the installation of approximately 3,353 lineal feet of 12-inch water main, 27 lineal feet of 8-inch water main, 39 lineal feet of 6-inch water main, 290 lineal feet of 4-inch water main, 8 fire hydrants, 95 new, replacement of reconstructions of water services, and the installation of temporary water bypass lines. The project also included sewer improvements generally consisting of the installation of 856 lineal feet of 24-inch sewer main, 19 lineal feet of 18-inch sewer main, 1,181 lineal feet of 8-inch sewer main, 26 lineal feet of 6-inch sewer main, 14 new manholes and 50 replacement sewer services. Approximately 2,350 square yards of asphaltic concrete pavement will be replaced, 11,000 square yards of chip seal installed; curb, sidewalk, and driveway replacement, and private property improvements. Additional paving improvements include 3,600 square yards of new asphalt paving with sub-grade preparation, scarification, grading, and re-compaction of existing aggregate base course. He provided technical oversight to support staff, which included report review, data processing, project management, special inspections, density testing of water main and lateral backfill, sewer main and lateral backfill, manholes, and aggregate base, on-site engineering technicians providing daily field observations, laboratory testing, which included soils/aggregate testing and concrete compressive strength testing. <i>Ninyo &amp; Moore Fees: \$25,000</i>			<input checked="" type="checkbox"/>
2.	<b>ADOT State Route 79 &amp; State Route 79B Intersection Testing</b> Florence, Arizona	2015		
	<b>(3) BRIEF DESCRIPTION</b> <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Principal for materials testing services for the State Route 79 & State Route 79B Intersection Testing project located in Florence, Arizona. We were required to Monitor and test the soil backfill of 180 archeological trenches. He provided technical oversight to support staff, which included; performing field observation and in-place density testing of the prepared subgrade, fill, and backfill soils; laboratory testing of materials; and project management, data processing, and report review services of laboratory and field observation test reports. <i>Ninyo &amp; Moore Fees: \$27,000</i>			<input checked="" type="checkbox"/>
3.	<b>Arizona Fallen Firefighters Memorial</b> Phoenix, Arizona	2015		
	<b>(3) BRIEF DESCRIPTION</b> <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Principal and Construction Materials Manager for materials testing services for the Arizona Fallen Firefighters Memorial at the Bolin Memorial Park in Phoenix, Arizona. The project consisted of the construction of a new memorial to honor Arizona fallen firefighters. The site is situated between existing monuments for World War II, USS Arizona, Korean War, and 9/11. The middle portion of the site was raised by up to 6 feet to accommodate a new concrete observation area and retaining wall. The retaining wall was about 4 to 5 feet high. A new monument bell tower and several firefighter statues were planned to be located on or near the top of the retaining wall. Responsibilities for this project include providing technical oversight to support staff, which included observation, testing, and sampling during the placement of soils, aggregate base, and concrete; laboratory testing of soils, aggregate base, and concrete; and project management, data processing, and report review services of laboratory and field test reports. The projected total costs for the Memorial, including design, communications, website, research and informational development, grounds preparation, electrical, sidewalks, benches, the Living Tree Memorial, Wall of Honor, 11 Bronzes, obelisk and perpetual flame, installation and a trust fund for perpetual maintenance is estimated at more than a million dollars, with half the cost going to the bronze statues and a large portion set aside for perpetual care. The memorial will include three distinct sets of bronzes representing professional firefighters, paramedics, and wildland firefighters. <i>Ninyo &amp; Moore Fees: \$7,700</i>			<input checked="" type="checkbox"/>



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4.	<p>(1) TITLE AND LOCATION (<i>City and State</i>) <b>Wide Ruins Roadway Project</b> <b>Wide Ruins, Arizona</b></p>	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	<p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Principal for materials testing services for the Bureau of Indian Affairs for the Wide Ruins project in Wide Ruins, Arizona. The project consisted of materials testing services for the grading and paving of approximately 1.5 miles of roadway, drainage work, retaining wall, and other miscellaneous improvements. He provided technical oversight to support staff, which included observation, testing, and sampling during the placement of soils, aggregate base, concrete and asphalt; laboratory testing of soils with our on-site mobile laboratory, aggregate base, concrete and asphalt; and project management, data processing, and report review services of laboratory and field test reports. <i>Ninyo &amp; Moore Fees: \$263,400</i></p>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	<p>(1) TITLE AND LOCATION (<i>City and State</i>) <b>Tempe Town Lake Dam</b> <b>Tempe, Arizona</b></p>	(2) YEAR COMPLETED	
		Professional Services Ongoing	Construction (if applicable)
	<p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE In July of 2010, a rubber bladder at the west end of the Tempe Town Lake failed, draining millions of gallons of water from the lake. The City of Tempe hired Gannett Fleming (GF) to provide a design alternative replacement. The replacement involves construction of the world's largest hydraulically-operated steel gate dam. Additional parties include PCL who was retained by the City of Tempe to construct the Dam and Magnus Pacific. Craig is the Project Principal for this project in which Ninyo &amp; Moore was retained by Magnus Pacific to provide trench logging during construction of the Scour Walls and Cut off Walls and provided personnel 7 days a week, 24 hours a day for 31 days. We were also retained by PCL to provide some geophysical assistance and supplementary geotechnical design work. Gannett Fleming had retained a competitor of ours to provide all QA testing &amp; inspection services to the project which includes approximately 47,000 CY of concrete. This competitor has had numerous issues trying to properly staff this project, as well as failing to meet and respond to the projects documentation submission requirements. Gannett Fleming has grown extremely unhappy with them. Subsequently, due to our responsiveness and the excellent work product we provided to Magnus and PCL, and the great interaction we had with Gannett Fleming during our time on-site, they have retained Ninyo &amp; Moore to perform a large portion of the remaining services. <i>Ninyo &amp; Moore Fees: \$80,000</i></p>	<input checked="" type="checkbox"/>	Check if project performed with current firm



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

a. NAME <b>Curtis Cope, ACI, ATTI, ICC</b>	b. ROLE IN THIS CONTRACT <b>Project Geologist</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>10</b>	2. WITH CURRENT FIRM <b>7</b>
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S., Geology, 2005, Northern Arizona University		f. PROFESSIONAL TRAINING - REGISTRATIONS ACI Concrete Field Testing Grade 1, ATTI Field Technician, ICC Reinforced Concrete Special Inspector, ICC Structural Masonry Special Inspector, City of Phoenix Certification, Nuclear Gauge Operator Certification	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> International Code Council			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>ADOT, State Route 89 Deep Wells Ranch Road to Chino Valley Prescott, Arizona</b>	(2) YEAR COMPLETED
		Professional Services 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for construction materials testing for the planned improvements to the State Route (SR 89); Deep Well Ranch Road to South Chino Valley Limits project in Yavapai County, Arizona. The improvements generally included the widening and reconstruction of SR 89 to provide a four-lane roadway. The project is located along the existing SR 89 alignment, roughly from Road 4 South to the new Deep Well Ranch Road, a distance of approximately 4.7 miles. The project was planned to connect to the existing roundabout at Road 4 South and extend south to about Ruger Road. A new roundabout was also constructed at the southern end of this project and provided connection with SR 89 and the new Deep Well Ranch Road, which connected to Ruger Road providing access to the airport. The Ruger Road connection with SR 89 was realigned. SR 89 is a four-lane, divided urban roadway section with curb and gutter at the northern and southern ends of this phase of the project and transitions to a four-lane, divided rural section with asphalt concrete shoulders in between. His responsibilities for this project included asphalt coring; nearly 2,000 field density tests of box culverts, storm drains, structural backfill, embankment subgrade and compacted fill, pipe bedding, electrical conduits, headwall backfill, utility lateral backfill, curb and gutter, aggregate base, asphalt, asphalt concrete, and soil; sampling during the placement of concrete; observations; and field test reports. <i>Ninyo &amp; Moore Fees: \$322,075</i>	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Arizona State University, Arizona Center for Law and Society Building Phoenix, Arizona</b>	(2) YEAR COMPLETED
		Professional Services 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Geologist for construction materials testing for the ASU Center for Law and Society Building project. The Arizona Center for Law and Society at Arizona State University's Downtown Phoenix campus is a 263,000 square foot ground-up facility featuring a variety of instructional spaces including lecture halls, classrooms, seminar rooms, a moot courtroom, law library and undergraduate + graduate student spaces. The project will also accommodate space for clinics, law journal storage, a law firm, and ancillary support. The project also includes two levels of underground parking. The law school uses the Construction Manager at Risk (CMAR) and Guaranteed Maximum Price (GMP) delivery method. A minimum of LEED Gold certification is being targeted and features an HVAC system that will be utilizing an active-chilled beam system and Airfloor. Responsible for oversight during project activities consisting of observation, testing, and sampling during the placement of soil, asphalt, aggregates, and concrete; special inspections including reinforcing steel in concrete, structural masonry, structural steel and welding, pre-cast concrete plant inspection, and spray applied fire proofing materials; laboratory testing of soil, aggregates, concrete, and asphalt; project management, data processing, and report review services of laboratory and field test reports. <i>Ninyo &amp; Moore Fees: \$375,700</i>	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>City of Prescott Dexter Neighborhood Road Improvements Prescott, Arizona</b>	(2) YEAR COMPLETED
		Professional Services 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for construction materials testing on the Dexter Neighborhood Road Improvements project located in Prescott, Arizona. This project generally consisted of repaving approximately 500 lineal feet of Meany Street and Short Street, to a minimum 24-foot width road with MAG 202-1 Type B Ribbon Curb. This project is a HUD, CDBG federally- funded construction project and is subject to compliance with all applicable Federal Labor Standards including the Davis Bacon Act. Responsibilities included report review, data processing, project management, density testing of lateral sewer line compacted fill, subgrade, and aggregate base, on-site engineering technicians providing daily field observations, laboratory testing, which included soils/aggregate testing. <i>Ninyo &amp; Moore Fees: \$5,000</i>	<input checked="" type="checkbox"/> Check if project performed with current firm



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4.	<p>(1) TITLE AND LOCATION (<i>City and State</i>) <b>City of Prescott Sundog Ranch Landfill</b> <b>Prescott, Arizona</b></p> <p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager for construction materials testing on the Dexter Neighborhood Road Improvements project located in Prescott, Arizona. This project generally consisted of the construction of maintenance and repairs to the final cap and improvements to the storm water control system for the Sundog Ranch Landfill including all earthwork, associated drainage controls, and other appurtenances as identified on the plans. Responsibilities included report review, data processing, project management, density testing of compacted fill and subgrade, on-site engineering technicians providing daily field observations, laboratory testing, which included soils/aggregate testing. <i>Ninyo &amp; Moore Fees: \$10,000</i></p>	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
5.	<p>(1) TITLE AND LOCATION (<i>City and State</i>) <b>Yavapai-Apache Nation Convenience Store</b> <b>Camp Verde, Arizona</b></p> <p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager for a geotechnical evaluation, construction materials testing, and special inspections for the Yavapai-Apache Convenience Store located in Camp Verde, Arizona. The purpose of our evaluation was to assess the subsurface conditions at the project site in order to formulate geotechnical recommendations for design and construction. The project generally consisted of the design and construction of a new convenience store building with a footprint of about 4,200 square feet, associated parking and driveway areas, canopy, sidewalks, and utilities. Responsibilities included reviewing readily available aerial photographs and published geologic literature, including maps and reports pertaining to the project site and vicinity; subsurface explorations; laboratory testing; and preparation of a geotechnical evaluation report presenting our findings, conclusions, and recommendations regarding the design and construction of the project. Ninyo &amp; Moore also provided materials testing and special inspection services. The scope of services was to perform materials testing services and special inspections for the construction of eight buildings and associated utilities, pavement etc. Responsibilities for construction materials testing services included observation, testing, and sampling during the placement of concrete, aggregate base, masonry, asphalt, and soil; Laboratory testing of soil, asphalt, aggregate base, concrete and grout; and project management, data processing and report review services of laboratory and field test reports. <i>Ninyo &amp; Moore Fees: \$25,800</i></p>	(2) YEAR COMPLETED	
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**4. Resumes of Key Personnel Proposed for this Contract** *(Complete one Section #4 for each key person.)*

<b>a. NAME</b> Tim O. Dowell, ACI, ATTI	<b>b. ROLE IN THIS CONTRACT</b> Project Manager	<b>c. YEARS EXPERIENCE</b>	
		1. TOTAL 12	2. WITH CURRENT FIRM 10
<b>d. LOCATION (City and State)</b> Tucson, Arizona			
<b>e. EDUCATION (DEGREE AND SPECIALIZATION)</b>		<b>f. PROFESSIONAL TRAINING - REGISTRATIONS</b> ACI Concrete Field Certification, ACI Concrete Strength Testing, ATTI Asphalt Technician, ATTI Field Certification, ATTI Soils and Aggregate Certification, Excavation Safety Awareness Training, Radiation Safety Training for Moisture/Density Gauge Operators Certification	
<b>g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)</b> Arizona Rock Products Association			

**H. RELEVANT PROJECTS**

1.	<b>(1) TITLE AND LOCATION (City and State)</b> The Marana Center Marana, Arizona	<b>(2) YEAR COMPLETED</b>
		Professional Services Ongoing
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> Based upon our geotechnical engineering services provided in the initial Phase I of Marana Center project, Ninyo & Moore has been awarded the construction materials testing services contract for the design and construction of the Marana Center, which Tim is the project manager on. The project includes the design and construction of the first phase of a new, approximately 160 acre retail shopping center and auto mall known as the Marana Center located in Marana, Arizona. His responsibilities during the construction phase for quality control testing included a soil cement mix design, observation, testing, and sampling during the placement of aggregate base and soil; laboratory testing of soil and aggregate base materials and asphalt; and project management, data processing, and report review services of laboratory and field test reports. <i>Ninyo &amp; Moore Fees: \$160,000+</i>	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	<b>(1) TITLE AND LOCATION (City and State)</b> Tucson International Airport Air Traffic Control Tower Phoenix, Arizona	<b>(2) YEAR COMPLETED</b>
		Professional Services 2015
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> Project Manager for the Tucson International Airport Air Traffic Control Tower and Administrative Base Building project that Ninyo & Moore was awarded the materials testing services and special inspections located in Tucson, Arizona. The project consisted of a new 238- foot high Air Traffic Control Tower, new administration building, and miscellaneous site infrastructure. Ninyo & Moore provided geotechnical engineering services during the design phase of the Air Traffic Control Tower administrative base building at the Tucson International Airport. Tim's responsibilities during the construction phase included observation, testing, and inspection during the earthwork, concrete, and structural steel construction; laboratory testing of soil and aggregate base materials and asphalt; and project management, data processing and report review services of laboratory and field test reports. <i>Ninyo &amp; Moore Fees: \$42,000</i>	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	<b>(1) TITLE AND LOCATION (City and State)</b> City of Tucson, Compressed Natural Gas Plant Replacement Tucson, Arizona	<b>(2) YEAR COMPLETED</b>
		Professional Services Ongoing
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> Project Manager for materials testing services for the Compressed Natural Gas Plant Replacement project located in Tucson, Arizona. We performed materials testing services for the construction of the new Compressed Natural Gas plant and associated parking lots, and storm drains. Responsibilities for the construction phase included observation, testing, and sampling during the placement of soils, aggregate base, concrete, masonry materials, and asphalt; laboratory testing of soils, aggregate base, concrete, masonry materials, and asphalt; and project management, data processing, and report review services of laboratory and field test reports. <i>Ninyo &amp; Moore Fees: \$34,565+</i>	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	<b>(1) TITLE AND LOCATION (City and State)</b> University of Arizona Environmental and Natural Resources Phase 2 Tucson, Arizona	<b>(2) YEAR COMPLETED</b>
		Professional Services 2014
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> Project Manager for this project which Ninyo & Moore was retained by the University of Arizona to provide inspection and materials testing services for this very unique project. The ENR2 project is part of the University's Environmental and Natural Resources educational program and will be the new home of University of Arizona's Institute of the Environment, the School of Geography and Development, and the School of Natural Resources and the Environment. The ENR2 will be the centerpiece for environmental research at the campus. The highly sustainable facility will reflect the University of Arizona's commitment to resolving serious environmental issues and act as an environmental	<input checked="" type="checkbox"/> Check if project performed with current firm



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teaching tool and gathering place for the campus. The building features shaded outdoor meeting spaces, a cutting-edge chilled-beam air condition system, and a 52,000 gallon water harvesting tank. Ninyo & Moore is currently providing materials testing services during the construction of the Environmental and Natural Resources Phase 2 project at the University of Arizona campus in Tucson, Arizona. Responsibilities include construction of a new complex that will be the centerpiece of environmental research for the U of A. This highly sustainable facility will reflect the University of Arizona's commitment to resolving serious environments issues and act as an environmental teaching tool and gathering place for campus and community outreach missions. *Ninyo & Moore Fees: \$197,350*

(1) TITLE AND LOCATION (*City and State*)

**Divine Flavor**  
**Nogales, Arizona**

(2) YEAR COMPLETED

Professional Services  
2014

Construction (if applicable)

5.

(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

Project Manager for materials testing services for the Divine Flavor project site in Nogales, Arizona. The project consisted of a 100,000 sf cold storage facility constructed of tilt-up concrete panels. The site topography called for grade-raise fills of up to 40 feet during the mass grading. Additionally, the project included construction of retaining walls, new sewer and water lines, and asphalt drives and parking areas. Responsibilities during the construction phase services included: field observation, testing, and sampling of soil during the placement of mass fills and utility trench backfills, as well as inspections, sampling, and testing of structural concrete, steel, and asphalt. *Ninyo & Moore Fees: \$58,900*

Check if project performed with current firm



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

a. NAME <b>Michelle A. Fowler, PE</b>	b. ROLE IN THIS CONTRACT <b>Principal Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>28</b>	2. WITH CURRENT FIRM <b>5</b>
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S.E., Chemical Engineering, 1987, Arizona State University		f. PROFESSIONAL TRAINING - REGISTRATIONS PE (Chemical) 36622 (AZ), 40-Hour OSHA HAZWOPER Certification, American Red Cross CPR and First Aid Training	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Arizona Association of Environmental Professionals, Arizona Rock Products Association, Arizona Women's Envirolink, Women in Transportation – Phoenix Chapter			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Arizona State University Polytechnic Campus, South Desert Village Mesa, Arizona</b>	(2) YEAR COMPLETED
		Professional Services Ongoing
		Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for a project where we were selected by Arizona State University (ASU) to provide an assessment of environmental compliance alternatives relative to the redevelopment of South Desert Village, which conveys a remedial approach to facilitate removal of the Voluntary Environmental Mitigation Use Restriction (VEMUR) currently encumbering a portion of South Desert Village residential area at the ASU Polytechnic Campus in Mesa, Arizona. The South Desert Village residential area is located on property formally developed as the Williams Air Force Base (WAFB) near Power and Williams Field Roads in southeast Mesa, Arizona. The area of concern, known as the study area, comprises approximately 792,650 square feet, or approximately 18 acres, and is located in the central portion of the South Desert Village residential area. Residential housing units in the study area were constructed over an area previously developed as a 6-station Air Force trap and skeet range. Currently, there are approximately 86 residential houses located within the area encumbered by the VEMUR. Her responsibilities included review of environmental reports and related documents, interface with stakeholders to formalize remedial objectives and recommend a preferred approach, and evaluation of environmental site conditions. These activities produced information used to develop and evaluate alternative approaches for achieving established remedial objectives given planned development criteria. <i>Ninyo &amp; Moore Fees: \$37,075</i>	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>City of Glendale Convention &amp; Visitors Bureau Glendale, Arizona</b>	(2) YEAR COMPLETED
		Professional Services 2015
		Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for a project in which Ninyo & Moore was selected by the City of Glendale to perform a Limited Indoor Environmental Quality Assessment of designated suites, which was approximately 36,540 square feet total, at the Glendale Convention & Visitors Bureau located in Glendale, Arizona. The survey was intended to evaluate the suites which comprise the site for environmental conditions including asbestos, lead, and indoor air quality. Her responsibilities for this survey included assessment of building materials for the presence of asbestos and lead-based paint (LBP) and assessment of indoor air quality including evaluation of airborne mold spores, lead, and asbestos and general indoor air quality parameters including temperature (Temp), relative humidity (rH), carbon monoxide (CO), and carbon dioxide (CO2). <i>Ninyo &amp; Moore Fees: \$11,750</i>	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>ADOT, 8 Commercial Properties Phoenix, Arizona</b>	(2) YEAR COMPLETED
		Professional Services 2015
		Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager where Ninyo & Moore was retained by the Arizona Department of Transportation (ADOT) to perform Phase I Environmental Site Assessments (ESAs) of eight different properties located along Latham Street between 53rd and 59th Avenues in Phoenix, Arizona. The properties included were a Super 8 Motel, Storage Solutions, AZEJM Land Holdings, LLC, Blue Beacon International Inc., VAH, LLC, Liberty Fuel, Danny's Car Wash, Waffle House, Ryder Truck, and Days Inn The objective of these Phase I ESA's was to identify, to the extent feasible pursuant to the process described in ASTM International (ASTM) Practice E1527-13, recognized environmental conditions (RECs), which are defined by ASTM as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment." Her responsibilities included historical research, document review, site assessment activities, and preparation of 8 Phase I ESA's evaluation reports. <i>Ninyo &amp; Moore Fees: \$16,775</i>	<input checked="" type="checkbox"/> Check if project performed with current firm



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4.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>Sempra U.S. Gas &amp; Power Mesquite Generating Station Arlington, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE Project Manager for a Phase I Environmental Site Assessment (ESA) on 4.91 square miles of land, known as the Mesquite Generating Station and Water Property, which included desert land, developed habitats including ponds, and an area developed with solar panels, electrical transformers, and stormwater retention basins. Ninyo & Moore was selected by Sempra U.S. Gas & Power for this project. The site is located in Arlington, Maricopa County, Arizona. Responsibilities included performing a reconnaissance of both sites to visually identify areas of possibly contaminated surficial soil or surface water, improperly stored hazardous materials, possible sources of polychlorinated biphenyls, and possible risks of contamination from activities at the site or adjacent properties; interviews and records review; review readily available topographic, soil, geologic, and hydrologic information, including depth to groundwater for indications of surface and subsurface characteristics; adjacent property evaluation; and preparation of a Phase I ESA evaluation presenting our methodology, findings, opinions, and conclusions regarding the environmental conditions at the site. <i>Ninyo &amp; Moore Fees: \$9,775</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>City of Chandler 22 Parcels Chandler, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE Project Manager for a project in which Ninyo & Moore was retained by the City of Chandler to perform a Phase I Environmental Site Assessment (ESA) of 22 parcels of land located in the vicinity of the intersection of Chandler Boulevard and Alma School Road in Chandler, Arizona. Her responsibilities for this Phase I ESA included physical review of the site's facilities and practices; assessment of past and present site usage; evaluation of site characteristics; adjacent property evaluation; and preparation of a Phase I ESA report presenting our methodology, findings, opinions, and conclusions regarding the environmental conditions at the site. <i>Ninyo &amp; Moore Fees: \$12,555</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm



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

<b>a. NAME</b> <b>Heather P. Shoemaker, LEED AP</b>	<b>b. ROLE IN THIS CONTRACT</b> <b>Project Environmental Scientist</b>	<b>c. YEARS EXPERIENCE</b>	
		1. TOTAL <b>10 Years</b>	2. WITH CURRENT FIRM <b>6 Months</b>
<b>d. LOCATION</b> <i>(City and State)</i> Tucson, Arizona			
<b>e. EDUCATION</b> <i>(DEGREE AND SPECIALIZATION)</i> B.S., Environmental Technology, 2009, Temple University		<b>f. PROFESSIONAL TRAINING - REGISTRATIONS</b> LEED Accredited Professional, 40-Hour OSHA HAZWOPER Certification, AHERA Building Inspector, RMD's LPA-1 Lead Paint Inspection Systems, AGC-ADOT Erosion Control Coordinator	
<b>g. OTHER PROFESSIONAL QUALIFICATIONS</b> <i>(Organizations, Awards, etc.)</i> Arizona Association of Environmental Professionals, Arizona Water, Society of American Military Engineers, Southern Arizona Environmental Management Society, Tucson Clean and Beautiful			

**H. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED		
<b>Waste Management of Arizona Facility Tucson, Arizona</b>	2015	Professional Services	Construction (if applicable)
<b>1.</b>	<input checked="" type="checkbox"/> Check if project performed with current firm		
<b>(3) BRIEF DESCRIPTION</b> <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager for a project that we were selected by Waste Management of Arizona to perform limited soil sampling at their former facility located in Tucson, Arizona. They were required to clean-up any contamination at the site that occurred during their occupancy and they retained Ninyo & Moore was to collect soil samples at their prescribed locations. Her responsibilities included obtaining samples of the stained soils at the site with sample locations being directed by the client; submitting selected soil samples collected from the site to a laboratory for analysis for chemicals of concern; and preparation of a limited Phase II ESA report summarizing the subsurface investigations, sampling activities, and analytical results. <i>Ninyo &amp; Moore Fees: \$4,980</i>			
<b>Lennar Homes, Robb Hill Property, Tucson, Arizona Tucson, Arizona</b>	2015	Professional Services	Construction (if applicable)
<b>2.</b>	<input checked="" type="checkbox"/> Check if project performed with current firm		
<b>(3) BRIEF DESCRIPTION</b> <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for a project in which Ninyo & Moore was selected by Lennar Arizona, Inc. to perform a Phase I Environmental Site Assessment (ESA) and asbestos-containing materials (ACM) and lead based-paint (LBP) surveys of a residence located in Tucson, Arizona. The site consisted of approximately 12.5 acres of land developed with an approximately 2,700 square-foot, single-story residential home with a swimming pool, water well, and septic system. The remainder of the site is vacant, undeveloped land. Her responsibilities for the Phase I ESA included a physical review of facilities and practices at the site; assessment of past and present usage of the site; evaluation of characteristics of the site; adjacent property evaluation; and preparation of this Phase I ESA report presenting our methodology, findings, opinions, and conclusions regarding the environmental conditions at the site. Her responsibilities for the ACM and LBP surveys included a preliminary assessment of the site to observe homogeneous suspect ACM and LBP and develop an ACM and LBP sampling scheme; collecting bulk samples of the suspect ACMs for analysis; collecting bulk paint chip samples from the different types and colors of paint observed on building material surfaces and submit them for laboratory analysis; and preparation of a ACM and LBP survey report presenting our methodology, findings, opinions, and conclusions for the surveys. <i>Ninyo &amp; Moore Fees: \$5,550</i>			
<b>Commercial Property Underground Storage Tank Tucson, Arizona</b>	2015	Professional Services	Construction (if applicable)
<b>3.</b>	<input checked="" type="checkbox"/> Check if project performed with current firm		
<b>(3) BRIEF DESCRIPTION</b> <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for a Limited Phase II Environmental Site Assessment (ESA) of a former 5,000-gallon leaded gasoline underground storage tank (UST) at a commercial property located in Tucson, Arizona. Ninyo & Moore performed this Limited Phase II ESA to evaluate if the UST had leaked and had a significant environmental impact on the site. Her responsibilities for this project included coordination of utility locating with Arizona Blue Stake, Inc. and a private utility locator; preparation of a Site-specific Health and Safety Plan (HASP) for the sampling event; installation of test borings; screening of soil cuttings and the soil samples with a calibrated photoionization detector (PID), a qualitative field meter which can detect the presence of some common volatile organic compounds (VOCs) associated with fuels and solvents; visual and olfactory assessment of soil cuttings and soil samples for the potential presence of fuel, oil, and other chemical-impacted soils; laboratory testing and analysis of the soil samples; and preparation of a Phase II ESA report presenting our methodology, opinions, and conclusions regarding the findings. <i>Ninyo &amp; Moore Fees: \$16,775</i>			



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4.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Capital Metal Finishing Facility</b> <b>Tucson, Arizona</b>	<b>(2) YEAR COMPLETED</b>		
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> Project Manager for remediation services for the Capital Metal Finishing facility located in Tucson, Arizona. The Cleanup Action Plan (CAP) presented the proposed remediation services to be conducted by Southwest Hazard Control (SHC) and oversight and confirmation services to be conducted by Ninyo & Moore at Capital Metal Finishing. The site is a commercial metal plating facility that has operated since 2006. The Arizona Department of Environmental Quality (ADEQ) completed an inspection of the site and a Notice of Violation (NOV) was issued to the site. The notice cited 13 violations; with subsurface assessment required to address item 13. Item 13 cited violation in accordance with Arizona Administrative Code (A.A.C.) R18-8-270(B)(1) Treatment, Storage, or Disposal of hazardous waste without a permit. Responsibilities included preparation and submittal of a remedial action work plan; environmental oversight and technical assistance during excavation activities and confirmation sampling following excavation activities; and preparation of closure documentation. <i>Ninyo &amp; Moore Fees: \$4,580</i>	<input checked="" type="checkbox"/> Check if project performed with current firm	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">Professional Services 2015</td> <td style="width: 50%; padding: 2px;">Construction (if applicable)</td> </tr> </table>	Professional Services 2015
Professional Services 2015	Construction (if applicable)			
5.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Southwest Gas Corporation Southern Arizona Liquefied Natural Gas Project</b> <b>Tucson, Arizona</b>	<b>(2) YEAR COMPLETED</b>		
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> Project Manager where Ninyo & Moore was selected by Southwest Gas Corporation (SWG) to perform a Phase I Environmental Site Assessment (ESA), Feasibility Evaluation, and Regulatory Permitting Assistance at the Southern Arizona Liquefied Natural Gas (LNG) Project, located in Tucson, Arizona. The site encompassed approximately 21.97 acres of land. The property purchase is 19.74 acres. The additional 2.23 acres are a 1,430-foot in length and 61-foot wide strip from East Valencia Road to the purchase property and South Pantano Road is a 985-foot length and 25-foot wide strip that aligns the east border of the property purchase. Her responsibilities for the Phase I ESA included a physical review of site facilities and practices; assessment of past and present site usage; evaluation of site characteristics; adjacent property evaluation; and preparation of this Phase I ESA report presenting our methodology, findings, opinions, and conclusions regarding the environmental conditions at the site. Her responsibilities for the feasibility evaluation included evaluating applicability of Arizona Revised Statutes (A.R.S.) relative to the exempt groundwater withdrawal well; review and assess applicability/non-applicability for each process for which water would be used at the project; evaluation of local groundwater supply and quality conditions; developing preliminary groundwater well design specifications; and assisting with Completion of Regulatory Permitting Application(s) and Support Documentation. <i>Ninyo &amp; Moore Fees: \$25,280</i>	<input checked="" type="checkbox"/> Check if project performed with current firm	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">Professional Services 2015</td> <td style="width: 50%; padding: 2px;">Construction (if applicable)</td> </tr> </table>	Professional Services 2015
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**5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

*(Present no more than five (5) projects. Complete one Section 5 for each project.)*

<b>a. TITLE AND LOCATION (City and State)</b> <b>White Tanks Flood Retarding Structure No. 4 Rehabilitation Project</b> <b>Buckeye, Arizona</b>	<b>b. YEAR COMPLETED</b>	
	<b>PROFESSIONAL SERVICES</b> 2015	<b>CONSTRUCTION (If applicable)</b> Ongoing (12/2016)

**23. PROJECT OWNER'S INFORMATION**

<b>c. PROJECT OWNER</b> Flood Control District of Maricopa County	<b>d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT</b> \$4,163,358	<b>e. TOTAL COST OF PROJECT</b> \$4,163,358
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**f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)**

**Geotechnical:** Ninyo & Moore was retained as a prime-consultant for design of the White Tanks Flood Retarding Structure (FRS) No. 4 rehabilitation project within western Maricopa County, Arizona. The purpose of the project was to repair documented deficiencies associated with the FRS including horizontal and transverse cracking through the FRS embankment, removal and replacement of principal outlets so that they meet current design standards, embankment raising to accommodate increased floodpool storage, re-grading existing floodpool to eliminate existing dead-storage areas and improvements to the existing auxiliary spillways. Ninyo & Moore's responsibilities included overseeing all background review, field exploration, engineering analyses, design development, preparation of construction drawings, preparation of construction specifications and preparation of construction cost estimates. Design submittals were required at the 30%, 60%, 90%, and 100% levels. In addition, NRCS and ADWR reviewed and commented on each design submittal. We were also recently awarded post-design services for this project.

**Environmental:** Ninyo & Moore performed a Phase I Environmental Site Assessment (ESA) on four parcels of land totaling approximately 225.7 acres, located northwest of Jackrabbit Trail and the Van Buren Street alignment, Buckeye, Maricopa County, Arizona. The site was primarily native desert land. A borrow pit was present in the central portion of the property. Aggregate material was removed by Arizona Department of Transportation during construction of Interstate I-10. No evidence of recognized environmental conditions was revealed during conduct of the ASTM E1527-05 compliant Phase I ESA. Ninyo & Moore's services included physical review of site facilities and practices, assessment of past and present site usage, evaluation of site characteristics, evaluation of adjacent property, and preparation of a Phase I ESA report documenting findings and providing opinions and recommendations regarding possible environmental impacts at the site.

**Construction Materials Testing:** In addition Ninyo & Moore's Phoenix office was awarded a contract from the Flood Control District of Maricopa County to provide Quality Assurance oversight and testing for the construction of the White Tanks Flood Retarding Structure No. 4 rehabilitation project in Buckeye, Arizona. Ninyo & Moore has been integrally involved with the design of this project; which includes the rehabilitation of a 6,800 foot long dry-earth dam, massive flood pool grading, and new concrete inlet and spillway features.



**Project Team**

- Steven D. Nowaczyk: Project Manager/Project Principal Engineer
- Marek J. Kasztalski: Senior Geotechnical Engineer
- Kirstin L. Tvedten: Laboratory Manager at the time
- E. Craig Rees: Principal/Construction Materials Manager
- Curtis M. Cope: Field Technician for Geotech and Project Manager for CMT



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION (City and State) <b>APS, Cholla Steam Electrical Station</b> <b>Joseph City, Arizona</b>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Arizona Public Service	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$16,000	e. TOTAL COST OF PROJECT \$16,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Ninyo & Moore performed a geotechnical evaluation for the improvements at the Cholla Steam Electric Station facility in Joseph City, Arizona. The purpose of our evaluation was to assess the subsurface conditions at the site in order to provide geotechnical recommendations for design and construction. The project consisted of the design and construction of three new activated carbon injection (ACI) silos for the existing Cholla Steam Electric Station Units 1, 3, and 4. The units were anticipated to be approximately 14 feet in diameter and 55 to 69 feet tall. Our scope of services for the project included performing geologic research including reviewing readily available aerial photographs and published geologic literature pertaining to the project site and vicinity, including geologic and topographic maps; geophysical surveys; subsurface explorations; laboratory testing; and preparation of a geotechnical evaluation report presenting our findings, conclusions, and geotechnical recommendations regarding the design and construction of the improvements.



**Project Team**

Steven D. Nowaczyk: Project Principal Engineer  
Marek J. Kasztalski: Senior Geotechnical Engineer



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION (City and State)

Tucson Medical Center  
Tucson, Arizona

b. YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)  
2011 - 2015

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER

Tucson Medical Center

d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT

\$330,030

e. TOTAL COST OF PROJECT

\$330,030

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

Ninyo & Moore provided construction materials testing and inspection services for Tucson Medical Center's (TMC) West Wing Addition and Campus Infrastructure Improvements project. The completed project includes a new four-story building; five-level pre-cast parking deck; a renovated and upgraded perimeter road within the TMC campus from the vicinity of the Central Plant west to Wyatt and south down the west loop road to and including the Beverly Entrance off Grant with a new turning lane on Grant; new surface parking and associated landscaping; and all related utilities, infrastructure site improvements. Project Challenge: This project required a large number of different types of inspections, including drilled shafts, epoxy bolts, masonry walls, precast and cast in-place concrete, utility locating, floor flatness, structural steel welding and bolting, EIFS, fireproofing, paving, shotcrete, wet utilities, and infrared leak testing. Innovative Solution: Ninyo & Moore's Tucson office was able to provide all of these services by use of personnel from our Tucson office, as well as by the use of subcontractors and inspectors and equipment borrowed from other Ninyo & Moore offices. The result was the ability to add efficiency and save time and money for our client Tucson Medical Center. Services: Ninyo & Moore's services included field density testing of engineered soils; observation testing and sampling of concrete and asphaltic materials; and laboratory testing of soils, asphalt, and concrete. Ninyo & Moore provided inspection and testing services during the installation of drilled piers.

Additional projects that we have provided construction materials testing and inspections services on for the Tucson Medical Center include Oil Spill Backfill, Conduit Designation (Geophysical Services), Concrete Slab Rebar Location (Geophysical Services), Ramsey Hall Renovation, Women's Center Phase I, Women's Center Parking Lot and Expansion, Peppi's House Oxygen Tank, Pedestrian Bridge, and Radiology Room 3.



**Project Team**

- Tim O. Dowell: Project Manager
- Marek J. Kasztalski: Senior Geotechnical Engineer
- Kirstin L. Tvedten: Project Coordinator/Laboratory Manager at the time
- E. Craig Rees: Principal/Construction Materials Manager
- Curtis M. Cope: Field Technician for Geotech and Project Manager for CMT



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION (City and State) <b>Chandler-Gilbert Community College, Williams Campus - Engel Hall Building Mesa, Arizona</b>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Chandler-Gilbert Community College	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$12,500	e. TOTAL COST OF PROJECT \$12,500
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Ninyo & Moore performed a forensic geotechnical evaluation for the Chandler-Gilbert Community College, Williams Campus - Engel Hall building, which is located at 7418 East Tahoe Avenue in Mesa, Arizona. The purpose of our study was to evaluate the cause(s) of manifested damages to the flooring within the facility from a geotechnical standpoint. We performed site visits to evaluate underground utility locations, a subsurface evaluation, and vapor emission tests (VETs) and relative humidity (RH) tests. The subsurface evaluation consisted of the excavation of two exterior small-diameter exploratory borings to depths of approximately 20 feet below ground surface (bgs), excavation of two interior concrete cores through the concrete slab-on-grade to depth up to 2 feet bgs, the installation of 10 calcium chloride VETs on the surface of the interior floor slab of the building, and five RH sensors in the concrete floor slab. Our scope of services also included laboratory testing and preparation of a geotechnical evaluation presenting our findings, conclusions, and recommendations for the project.



Project Team

Kirstin L. Tvedten: Project Manager/Project Engineer  
Steven D. Nowaczyk: Project Principal Engineer



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION (City and State) <b>Southwest Gas Corporation, Southern Arizona Liquefied Natural Gas Project Tucson, Arizona</b>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Southwest Gas	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$25,280	e. TOTAL COST OF PROJECT \$25,280
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Ninyo & Moore was selected by Southwest Gas Corporation (SWG) to perform a Phase I Environmental Site Assessment (ESA), Feasibility Evaluation, and Regulatory Permitting Assistance at the Southern Arizona Liquefied Natural Gas (LNG) Project, located in Tucson, Arizona. The site encompassed approximately 21.97 acres of land. The property purchase is 19.74 acres. The additional 2.23 acres are a 1,430-foot in length and 61-foot wide strip from East Valencia Road to the purchase property and South Pantano Road is a 985-foot length and 25-foot wide strip that aligns the east border of the property purchase. Ninyo & Moore's proposed scope of services for the Phase I ESA included a physical review of site facilities and practices; assessment of past and present site usage; evaluation of site characteristics; adjacent property evaluation; and preparation of this Phase I ESA report presenting our methodology, findings, opinions, and conclusions regarding the environmental conditions at the site. The scope of services for the feasibility evaluation included evaluating applicability of Arizona Revised Statutes (A.R.S.) relative to the exempt groundwater withdrawal well; review and assess applicability/non-applicability for each process for which water would be used at the project; evaluation of local groundwater supply and quality conditions; developing preliminary groundwater well design specifications; and assisting with Completion of Regulatory Permitting Application(s) and Support Documentation.



**Project Team**

Heather P. Shoemaker: Project Manager/Project Environmental Scientist  
Michelle A. Fowler: Project Principal Engineer



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6. ADDITIONAL INFORMATION

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

Since establishment of the firm in 1986, Ninyo & Moore has provided geotechnical engineering, geologic, hydrogeologic, soil and materials testing and inspection, and environmental consulting services on projects throughout the southwestern United States. This experience includes educational facilities, highways and roadways, parking structures, maintenance facilities, light rail transit lines and stations, bridges, tunnels, dams and flood control structures, military facilities, commercial buildings, municipal structures, airports, hospitals, industrial developments, landfills, pipelines, power stations, reservoirs and tanks, transmission lines, water treatment plants, wastewater treatment plants, and other public and private works.

Our highly qualified staff of nearly 400 includes more than 80 registered engineers, geologists, and environmental assessors. Our Arizona operations have over 65 employees including 12 Professional Engineers and Geologists and approximately 53 professional, administrative and field personnel. Ninyo & Moore pledges to complete each and every project assignment in a thorough and timely manner with special attention given to quality assurance, and cost effectiveness. Avram Ninyo, owner of Ninyo & Moore, has prided himself and the firm on providing quality consulting and testing services to the public and private sectors for the past 29 years.



Ninyo & Moore pledges to complete every project assignment in a high-quality manner with special attention given to quality assurance, timeliness, and cost. Specific strengths of Ninyo & Moore, which we believe make us exceptionally well qualified to undertake any of the specific projects, include:

- ❖ **Offices:** Ninyo & Moore has 16 offices located throughout the Western United States. These offices are located in Phoenix, Tucson, Prescott Valley, Flagstaff, San Diego, Irvine, Los Angeles, Rancho Cucamonga, Oakland, San Francisco, San Jose, Sacramento, Denver, Broomfield, Las Vegas, and Houston.
- ❖ **Arizona Offices:** Ninyo & Moore opened their first Arizona office in Phoenix in 1998, the Prescott Valley office opened in 2005, the Tucson office opened in 2007, and our most recent office opened in November 2015 in Flagstaff. Registrations with the Arizona Technical Board of Registration (License No. 10836), the Arizona Registrar of Contractors (License No. 206210), and the Arizona Corporation Commission (F-1186382-5) have remained in good standing.
- ❖ **Employees:** Ninyo & Moore has nearly 400 employees, composed primarily of geotechnical and environmental engineers, civil engineers, engineering geologists, geophysicists, environmental scientists, field technicians, and inspectors. Our Phoenix office is fully staffed to meet the requirements of this contract.
- ❖ **Projects:** Ninyo & Moore has successfully completed a large number of geotechnical, environmental, and soil and materials testing projects for a variety of clients from planners to constructors and from small municipalities to the federal government. Our Arizona offices have completed over 7,570 projects. We have successfully managed large, multidisciplinary contracts for various local, state, and federal government agencies, including:
  - ❖ Maricopa County
  - ❖ Pinal County
  - ❖ Pima County
  - ❖ Yavapai County
  - ❖ Coconino County
  - ❖ Arizona Department of Transportation
  - ❖ City of Glendale
  - ❖ City of Goodyear
  - ❖ City of Tempe
  - ❖ City of Chandler
  - ❖ City of Apache Junction
  - ❖ City of Scottsdale
  - ❖ City of Mesa
  - ❖ City of Phoenix
  - ❖ City of Avondale
  - ❖ City of Buckeye
  - ❖ City of Yuma
  - ❖ City of Surprise
  - ❖ City of Peoria
  - ❖ City of El Mirage
  - ❖ City of Casa Grande
  - ❖ City of Maricopa
  - ❖ City of Tucson
  - ❖ City of Nogales
  - ❖ City of Sierra Vista
  - ❖ Town of Oro Valley
  - ❖ Town of Marana
  - ❖ Town of Sahuarita
  - ❖ Town of Florence
  - ❖ Town of Chino Valley
  - ❖ City of Sedona
  - ❖ City of Prescott
  - ❖ Town of Prescott Valley
  - ❖ City of Flagstaff
  - ❖ Gila River Indian Community
  - ❖ Salt River Pima-Maricopa Indian Community
  - ❖ Pascua Yaqui Tribe
- ❖ **Quality Assurance/Quality Control:** Ninyo & Moore's geotechnical and environmental consulting services are rendered in strict compliance to the firm's rigorous Quality Assurance/Quality Control program, which goes beyond the expectations of the industry. Ninyo & Moore's quality assurance program is designed to be flexible while ensuring that the data is of sufficient and appropriate quality to fulfill project requirements.



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- ❖ **Laboratories:** Ninyo & Moore maintains fully equipped, in-house testing laboratories and offers full-service field and laboratory services for geotechnical and soil and materials testing projects. Ninyo & Moore’s local laboratory is supervised by a registered civil engineer and meets the general requirements of ASTM E329, ASTM C1077, ASTM D3740, and ASTM D3666. Ninyo & Moore’s testing equipment is calibrated annually with equipment traceable to the National Institute of Standards and Technology and is regularly inspected by the Cement and Concrete Reference Laboratory (CCRL) and American Association of State Highway and Transportation Officials (AASHTO) Materials Reference Laboratory. Our local laboratory facility is inspected and/or accredited by the Arizona Department of Transportation (ADOT), American Association of State Highway and Transportation Officials (AASHTO), Cement and Concrete Reference Laboratory (CCRL), the City of Phoenix and the U.S. Army Corps of Engineers.



- ❖ **Mobile Laboratory:** Ninyo & Moore has the resources to establish an on-site mobile laboratory as may be required by the project specifications and/or in order to reduce sample transportation time. We have utilized our mobile laboratories on many projects to provide our clients with full-service construction materials testing services on site. When requested, our mobile laboratory will be transported to the site and, once established, our laboratory equipment will be re-calibrated and certified by the appropriate agencies before we commence with our laboratory testing. Results from our laboratory can be immediately delivered to our client without delay. We have found our on-site mobile laboratories to be very effective, especially for projects with multiple shifts and overnight work.

Ninyo & Moore’s mobile laboratories provide on-site laboratory testing as project needs dictate. By mobilizing a soils and materials testing laboratory to the project site, Ninyo & Moore can save time and money by eliminating travel costs and enabling our technicians/inspectors to communicate directly with our client and field personnel. On-site laboratory testing services include 200 Wash, Absorption of Coarse Aggregate, Absorption of Fine Aggregate, Atterberg Limits, Expansion Index, Proctor Tests, Moisture and Density, Sand Equivalent, Sieve Analysis, Specific Gravity, Coarse Aggregate Specific Gravity, Fine Aggregate Specific Gravity, Compressive Strength of Concrete Specimens, and Asphalt Properties Testing.



- ❖ **“Specialty” Tests Conducted at Ninyo & Moore Laboratories:** Ninyo & Moore is capable of conducting “specialty” tests like triaxial shear tests including UU, CU, CD tests and stress path tests, direct shear and permeability tests using state-of-the art fully automatic machines. These tests help understand shear strength of soils, which is one of the most critical aspects of geotechnical engineering.

Responsiveness

Ninyo & Moore has extensive experience with responding to requests for services and meeting project deadlines under tight time restraints. We have established effective management control systems, integrated them for efficient project administration, and have trained our staff to respond quickly and efficiently to task orders and project situations as they arise in order to meet highly accelerated project deadlines.

Quality Assurance/Quality Control Programs

Ninyo & Moore has both geotechnical and environmental Quality Assurance/Quality Control (QA/QC) programs that facilitate compliance with project performance standards, schedules, and budgets. These comprehensive quality assurance plans utilize management approach procedural manuals that delineate the interrelationship between management and design team components and describe specific quality control procedures to be used. The programs address data generation, management, and quality assessment guidelines for sampling and analysis procedures, as well as methods of corrective action. The Quality Assurance Program manuals are available for review upon request. All project assignments are managed in compliance with a Quality Management Plan (QMP) that





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implements the corporate policies described in the company wide Quality Assurance Plan.

Cost Control

Cost control and subcontracted services are maintained by the Project Manager, who is solely responsible for monitoring all contract costs. The Project Manager reviews each subcontractor's invoice personally, and verifies on-site times with field personnel before forwarding the invoice to the Ninyo & Moore accounting department. The Project Manager also receives and reviews both weekly and monthly reports on in-house costs, allowing Ninyo & Moore tight cost control over each task order.

Organization of Firm and Personnel

Ninyo & Moore, a Type S Corporation, was founded in San Diego, California in 1986. Since that time it has expanded to include 16 offices throughout the southwestern United States. Ninyo & Moore operates under Mr. Avram Ninyo, Owner and Principal Engineer, as well as a Board of Directors.

Timeliness

Ninyo & Moore's project managers are available throughout the duration of all project assignments. Twenty-four-hours-a-day, seven-days-a-week, point-of-contact telephone/pager numbers are provided to the designated project manager/representative(s). Client requests are addressed immediately and emergency response to those projects requiring it is provided throughout the duration of the project. If required, Ninyo & Moore project managers can accelerate project scheduling without compromising quality by adding additional professional staff and working extended hours and weekends. Ninyo & Moore has several facsimile machines, courier, and e-mail services for purposes of transmitting/sending information immediately following such requests.

Business Relations

Professionalism and quality are highly respected attributes throughout Ninyo & Moore. The firm's primary goal is the complete and total satisfaction of our clients. Ninyo & Moore believes that this one goal, coupled with our highly qualified and competent personnel, is the key to our firm's success. Ninyo & Moore strives to continually improve the caliber, efficiency, and cost effectiveness of our consulting services, and works to meet or exceed each client's expectations and deliver the highest level of quality possible.



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

a.	Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	65%
b.	Percentage of Total Work Attributable to Non-Government Work:	35%

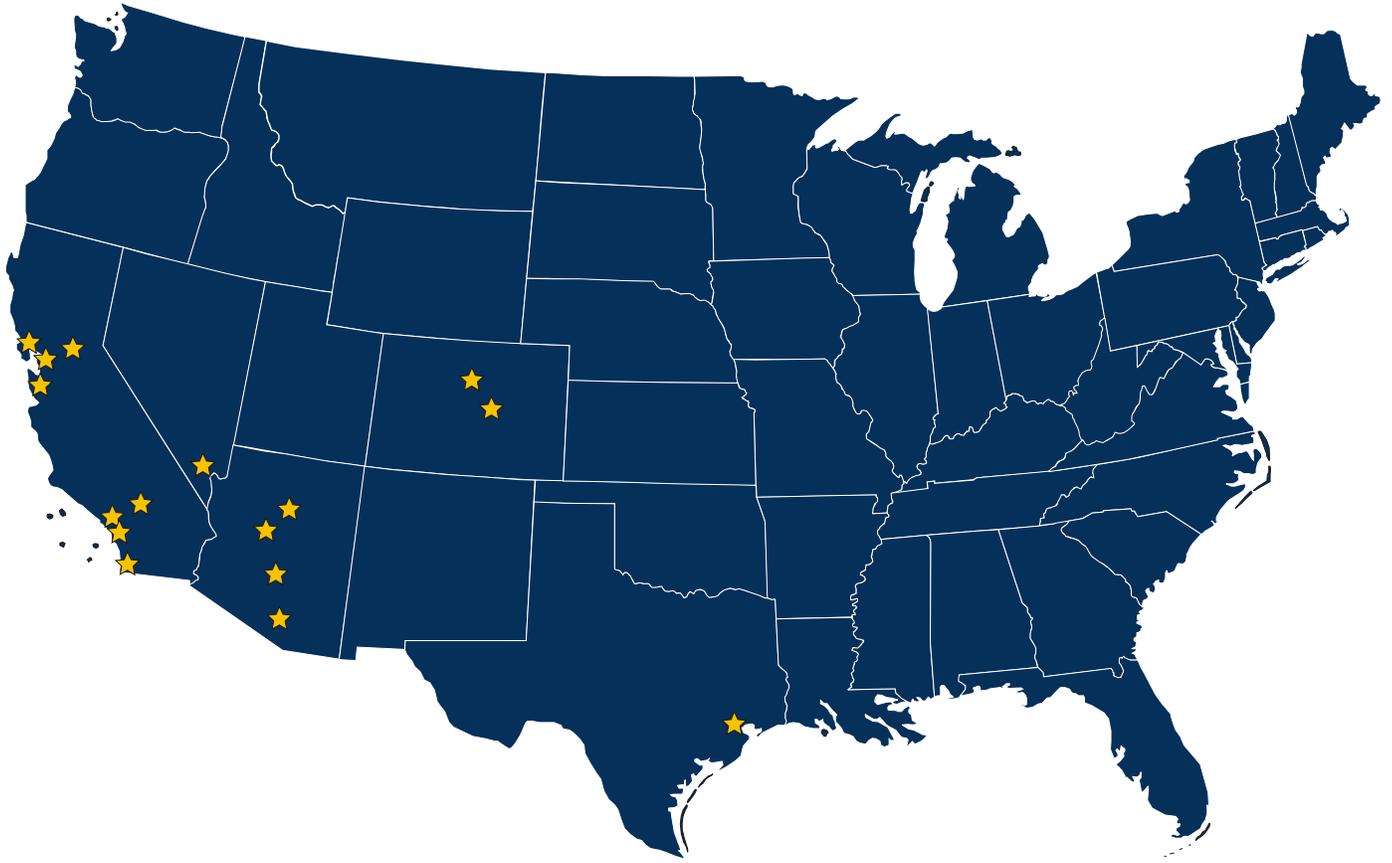
8. AUTHORIZED REPRESENTATIVE. The foregoing is a statement of facts.

Signature: Steven D. Nowaczyk

Date: December 21, 2015

Name: Steven D. Nowaczyk

Title: Managing Principal Engineer



## *Ninyo & Moore*

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3202 East Harbour Drive | Phoenix, Arizona 85034 | p. 602.243.1600 | f. 602.243.2699

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