



AGENDA ITEM EXECUTIVE SUMMARY

Agenda Item:	2019 CONSTRUCTION MATERIAL TESTING AND GEOTECHNICAL SERVICES		
Presenter & Title:	Brian L. Schiber, P.E. Assistant Director of Public Works/City Engineer		
Date:	April 1, 2019		
Please Check Appropriate Box:			
<input checked="" type="checkbox"/>	Committee of the Whole Meeting		Special Committee of the Whole Meeting
<input checked="" type="checkbox"/>	City Council Meeting		Special City Council Meeting
<input type="checkbox"/>	Public Hearing		Other -
Associated Strategic Plan Goal/Objective: EMS-2 / QL-1			
Estimated Cost: \$ 25,122.00	Budgeted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Other Funding? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<i>If "Other Funding," please explain how the item will be funded:</i>			
Executive Summary:			
<p>This is for the testing of construction materials for quality assurance before these materials are incorporated into City projects. It also includes the testing of the existing soils and construction debris for the presence of contaminants such that the appropriate management practices can be employed before spoils are removed from the construction site and be disposed of.</p> <p>Five (5) quotes were received and summarized in the Tabulation (attached). Nashnal Soil Testing, LLC submitted the lowest quote. They have done this type of work for the City of Geneva in the past and have performed satisfactorily.</p>			
Attachments: <i>(please list)</i>			
<ul style="list-style-type: none"> • Resolution • Tabulation of Quotes 			
Voting Requirements:			
<p><i>This motion requires <u>6</u> affirmative votes for passage.</i></p> <p><i>The Mayor may vote on three occasions: (a) when the vote of the aldermen or trustees has resulted in a tie; (b) when one half of the aldermen or trustees elected have voted in favor of an ordinance, resolution, or motion even though there is no tie votes; or (c) when a vote greater than a majority of the corporate authorities is required by state statute or local ordinance to adopt an ordinance, resolution, or motion.</i></p>			
Recommendation / Suggested Action: <i>(how item should be listed on agenda)</i>			
<p>Recommend approval of a resolution authorizing the City Administrator to execute a contract for the 2019 CONSTRUCTION MATERIAL TESTING AND GEOTECHNICAL SERVICES with Nashnal Soil Testing, LLC of Plainfield, IL in the amount of \$25,122.00.</p>			

RESOLUTION NO. 2019-29

**RESOLUTION AUTHORIZING EXECUTION OF
Contract with Nashnal Soil Testing, LLC for the 2019 Construction Materials Testing and
Geotechnical Services**

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GENEVA, KANE COUNTY, ILLINOIS, as follows:

SECTION 1: The City Administrator is hereby authorized to execute the contract, on behalf of the City of Geneva, for the 2019 Construction Materials Testing and Geotechnical Services with Nashnal Soil Testing, LLC as it relates to the testing of construction materials for quality assurance before construction materials are incorporated into City projects and also the testing of the soils such that the appropriate management practices can be employed to properly dispose of spoils.

SECTION 2: This Resolution shall become effective from and after its passage as in accordance with law.

PASSED by the City Council of the City of Geneva, Kane County, Illinois, this 1st day of April, 2019

AYES: ___ **NAYS:** ___ **ABSENT:** ___ **ABSTAINING:** ___ **HOLDING OFFICE:** ___

Approved by me this _____ day of _____, 2019.

Mayor

ATTEST:

City Clerk

2019 CONSTRUCTION MATERIAL TESTING AND GEOTECHNICAL SERVICES TABULATION OF PROPOSALS

DESCRIPTION	NASHnal SOIL TEST.	RUBINO	ESC MIDWEST, LLC.	GEOCON PROF. SERVICES	SEECO CONSULTANTS INC.
CONSTRUCTION MATERIAL TESTING	\$14,603.00	\$16,235.00	\$24,570.00	\$24,715.00	\$21,985.00
GEOTECHNICAL SERVICES	\$10,519.00	\$13,570.00	\$10,360.00	\$13,015.00	\$22,832.00
TOTALS	\$25,122.00	\$29,805.00	\$34,930.00	\$37,730.00	\$44,817.00



Certified MBE/DBE Firm

Geotechnical Services • Construction Materials Testing

Main Office:

Plainfield, IL

NASHnal Soil Testing, LLC
23856 W. Andrew Road, Unit 103
Plainfield, IL 60585
Phone No. 630-780-5201
Fax No. 630-429-9099
Contact: Umar T. Ahmad, PE
Email: uahmad@nstengr.com

Branch Office

Springfield, IL

NASHnal Soil Testing, LLC
2856 11th Street, Unit F
Springfield, IL-62703
Phone No. 217-816-5697
Fax No. 630-429-9099
Contact: Umar T. Ahmad, PE
Email: uahmad@nstengr.com

**City of Geneva-Construction Material
Testing and Geotechnical Services**

Request for Bids and Proposal (RFP)

Submittal date: March 18, 2019 10:00AM CST



February 20, 2019

Mr. C. Elton Orozco
Civil Engineer
Geneva Public Works Department
22 South First Street
Geneva, IL-60134

Re: Request for Bids and Proposal (RFP)
2019 Construction Material Testing and Geotechnical Services

Dear Mr. Orozco,

NASHnal Soil Testing, LLC (NST) is pleased to submit our proposal for the above mentioned Contract. Our overall depth of experience and our qualifications are uniquely suited to performing the necessary services for this Contract. NST understands that the City of Geneva is planning to renovate various streets in addition to other street improvement projects throughout the city in the 2019-2020 fiscal year. And these projects will require construction inspection and material testing, subsurface exploration and geotechnical work. As NST has provided the required services for 2018-2019 fiscal year, NST can once again provide the services required as specified in the RFP in a timely and professional manner and look forward to working with you in the coming years.

NST is a full service organization, which provides geotechnical investigation, construction inspection, and material testing services to clients in both the private and public sectors. Our Principals have over 27 years of combined experience in the related fields. NST has previous experience with City of Geneva, City of Naperville, Macupin County and Cook County projects. NST has been providing subsurface soil investigations, construction inspection and material testing services to developers, contractors and public sector in multiple locations. NASHnal Soil Testing, LLC was started in 2010 in Naperville and now has additional offices in Springfield, IL and Union Grove, WI. Our engineers have professional Engineers certificates with IL, WI, MO, IN, TX.

NASHnal Soil Testing, LLC (NST) is accredited by **AASHTO/AMRL & CCRL**. NST is also certified by **US ARMY CORPS OF ENGINEERS (USACOE)**. Additionally, NST is a certified Disadvantage Business Enterprise (**DBE**) accepted by **IDOT, UPRR** and other governmental agencies. NST is Certified as minority business enterprise by the **City of Chicago &** accepted by **Cook County** and other Public agencies. NST is also certified by **SBA** under **8(a) BD** program (NAICS Codes 541330 & 541380) for all projects where federal funds are involved.

We are **pre-qualified** in **Construction Inspection (Special Services), General Geotechnical Services and Structure Geotechnical Reports (SGR), Quality Assurance HMA & Aggregates (Special Services) and Quality Assurance PCC & Aggregates(Special Services)**

NASHnal Soil Testing, LLC understands the importance of carrying out the required engineering services along with providing a safe and functional construction work zone for all parties involved. We understand the challenges such as traffic maintenance, environmental constraints, budget constraints schedule constraints and design challenges. Regardless of the project size or scope, we provide skilled and knowledgeable inspectors to assist our clients in managing risk in the construction project and in supporting their responsibility to the environment. In addition we understand the need to be proactive



with the local businesses and residents to minimize disruptions and apprizing all of the construction sequencing.

Based on the project goals we have assembled a strong project team with extensive experiences in successful execution and delivery of similar projects. Our team will ensure the necessary capacity and support the required specializations for successful project delivery. We understand that the scope of the engineering service may include, but is not be limited to performing onsite inspections, review layout of contract including design changes, provide geotechnical inspection and testing, prepare records, maintain documentation, submit pay estimates and change orders and any other duties requiring the services of an engineer to complete this project on a timely basis and in accordance with IDOT specifications

NST will perform all tasks associated with this project in accordance with the projects technical specifications and special provisions. The laboratory services will be performed by certified lab professionals. **The construction inspection services will be performed by certified Union field inspectors.** In addition, all wages will be paid in accordance with current **Prevailing Wage Act**. All laboratory testing and construction inspection services will be supervised by a registered professional Engineer. Please do not hesitate to call me if you have any questions whatsoever regarding this submittal.

Best Regards,

A handwritten signature in blue ink, appearing to read 'Umar Ahmad, P.E.', is written above the typed name.

Umar Ahmad, P.E
NASHnal Soil Testing, LLC
23856 W. Andrews Road, Unit 103
Plainfield, IL-60585
Phone: (630) 780-5201
Email: uahmad@nstengr.com



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ESTIMATE OF COST

NASHnal Soil Testing, LLC (NST) determines the fee by the actual amount of technical time that will be needed for the project and the total time expended for laboratory testing as requested by the client. For this cost estimate, quantities were provided by the City of Geneva for the purpose of preparing this proposal.

Task	Units	# of Units	Unit Cost	Est. Cost
Laboratory Testing Services				
Compression Testing of PCC Cylinders per ASTM	Each	55	\$ 15.00	\$825.00
PCC Cylinder Pick Up	Set	10	\$ 75.00	\$750.00
Maximum Theoretical Specific Gravity	Each	12	\$ 86.00	\$1,032.00
Bulk Specific Gravity	Each	12	\$ 78.00	\$936.00
Ignition Oven Test	Each	12	\$ 70.00	\$840.00
Core Thickness & Density Determination	Each	18	\$ 20.00	\$360.00
Sieve Analysis (ASTM C 136)	Each	7	\$ 40.00	\$280.00
				\$5,023.00
Field Testing				
Engineering Technician Services (Regular Hours)	Each	110	\$ 80.00	\$8,800.00
				\$8,800.00
Engineering Services				
Project Engineer Hour	Hours	10	\$ 78.00	\$780.00
				\$780.00
Construction Material Services Estimated Total				\$14,603.00

Geotechnical Engineering Services

Engineering Services				
Chief Engineer	Hours	6	\$ 88.00	\$528.00
Senior Engineer	Hours	6	\$ 86.00	\$516.00
Project Engineer	Hours	10	\$ 78.00	\$780.00
Staff Engineer	Hours	15	\$ 78.00	\$1,170.00
Engineering Technician	Hours	20	\$ 79.00	\$1,580.00
Sub Surface Exploration				
Mobilization	Each	2	\$550.00	\$1,100.00
Borings (5-10 feet deep) ASTM D1587	Feet	100	\$ 20.00	\$2,000.00
Cores (2 feet)	Feet	60	\$ 20.00	\$1,200.00
Laboratory Testing				
Moisture Content Test	Each	70	\$ 3.00	\$210.00
Atterberg Limits (LL & PL)	Each	10	\$ 23.00	\$230.00
Combined Hydrometer & Sieve Analysis	Each	10	\$ 55.00	\$550.00
Sieve Analysis (Washed)	Each	4	\$ 40.00	\$160.00
Unconfined Compression Test	Each	10	\$ 10.00	\$100.00
Density Determination	Each	4	\$ 5.00	\$20.00
Unconsolidated-underdrained Triaxial Test /pt	Each	5	\$ 75.00	\$375.00
Geotechnical Engineering Estimated Total				\$10,519.00

Estimated Total \$25,122.00



Approach to Service Delivery

NASHnal Soil Testing, LLC understands the importance of carrying out the required engineering services along with providing a safe and functional construction work zone for all parties involved. We understand the challenges such as traffic maintenance, environmental constraints, budget constraints schedule constraints and design challenges. Regardless of the project size or scope, we provide skilled and knowledgeable inspectors to assist our clients in managing risk in the construction project and in supporting their responsibility to the environment. In addition we understand the need to be proactive with the local businesses and residents to minimize disruptions and apprizing all of the construction sequencing.

Based on the project goals we have assembled a strong project team with extensive experiences in successful execution and delivery of similar projects. Our team will ensure the necessary capacity and support the required specializations for successful project delivery. We understand that the scope of the engineering service may include, but is not be limited to performing onsite inspections, review layout of contract including design changes, provide geotechnical inspection and testing, prepare records, maintain documentation, submit pay estimates and change orders and any other duties requiring the services of an engineer to complete this project on a timely basis and in accordance with IDOT specifications



List of Current Accreditations

1. Pre-qualified in **Construction Inspection (Special Services)-IDOT**
2. Pre-qualified in **General Geotechnical Services and Structure Geotechnical Reports (SGR)-IDOT**
3. Pre-qualified in **Quality Assurance HMA & Aggregates (Special Services)-IDOT**
4. Pre-qualified in **Quality Assurance PCC & Aggregates(Special Services)-IDOT**
5. **AASHTO/AMRL & CCRL** accredited Lab
6. **US ARMY CORPS OF ENGINEERS (USACOE)** certified Lab and Mobile Lab.
7. Certified Disadvantage Business Enterprise (**DBE**) accepted by **IDOT, UPRR** and other governmental agencies.
8. Minority Business Enterprise (**MBE**) by the **City of Chicago** & accepted by **Cook County** and other Public agencies.
9. Certified by **SBA** under **8(a) BD** program (NAICS Codes 541330 & 541380) for all projects where federal funds are involved.



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

March 15, 2019

Subject: PRELIMINARY ENGINEERING
Consultant Unit
Prequalification File

Umar Ahmad
NASHnal Soil Testing, LLC
23856 W. Andrew Rd.
Unit 103
Plainfield, IL 60585

Dear Umar Ahmad,

We have completed our review of your "Statement of Experience and Financial Condition" (SEFC) which you submitted for the fiscal year ending Dec 31, 2017. Your firm's total annual transportation fee capacity will be \$3,000,000.

Your firm's payroll burden and fringe expense rate and general and administrative expense rate totaling 300.00% are approved on a provisional basis. The rate used in agreement negotiations may be verified by our Office of Quality Compliance and Review in a pre-award audit.

Your firm is required to submit an amended SEFC through the Engineering Prequalification & Agreement System (EPAS) to this office to show any additions or deletions of your licensed professional staff or any other key personnel that would affect your firm's prequalification in a particular category. Changes must be submitted within 15 calendar days of the change and be submitted through the Engineering Prequalification and Agreement System (EPAS).

Your firm is prequalified until December 31, 2018. You will be given an additional six months from this date to submit the applicable portions of the "Statement of Experience and Financial Condition" (SEFC) to remain prequalified.

Sincerely,
Jack Elston, P.E.
Bureau Chief
Bureau of Design and Environment

SEFC PREQUALIFICATIONS FOR NASHnal Soil Testing, LLC

CATEGORY	STATUS
Geotechnical Services - Subsurface Explorations	X
Geotechnical Services - Structure Geotechnical Reports (SGR)	X
Special Services - Construction Inspection	A
Geotechnical Services - General Geotechnical Services	X
Special Services - Quality Assurance HMA & Aggregate	X
Special Services - Quality Assurance PCC & Aggregate	X

X PREQUALIFIED

A NOT PREQUALIFIED, REVIEW THE COMMENTS UNDER CATEGORY VIEW FOR DETAILS IN EPAS.

S PREQUALIFIED, BUT WILL NOT ACCEPT STATEMENTS OF INTEREST



Illinois Department of Transportation

Office of Highways Project Implementation / Bureau of Materials
126 East Ash Street / Springfield, Illinois 62704

June 8, 2018

Mr. Umar T. Ahmad P.E.
NASHnal Soil Testing, LLC
23856 W. Andrew Road
Unit 103
Plainfield, Illinois 60585

Dear Mr. Ahmad:

Your Portland Cement Concrete/Hot Mix Asphalt/Aggregate quality assurance laboratory, located in Plainfield, Illinois, is approved.

An initial inspection was performed by Kathy Winking, Kevin Wiltshire, Janay Hammons, Trey Summers and Kyle Hanselman of the Illinois Department of Transportation on May 23, 2018.

Attached is a list of approved equipment. Based on this list of equipment, we are granting approval for your quality assurance laboratory to perform the required sampling and testing.

- The inspected test equipment shall be maintained and calibrated by your company, as required by the appropriate test method and Policy Memorandum 6-08.3.
- The engineer shall have unrestricted access to the plant and laboratory, at any time to inspect measuring and testing equipment. Defective equipment shall be immediately repaired or replaced.
- Your company shall notify the district of any changes made to this equipment, or purchase of new equipment.
- If at any time the engineer determines that the equipment is not within the limits of dimensions or calibration described in the appropriate test method, the engineer may require the contractor to stop production until corrective action is taken.

If you have any questions, please contact George Houston, the District 1 Materials Engineer, or Kathy Winking of the Central Bureau of Materials, at (217) 782-7213.

Sincerely,

Brian A. Pfeifer, P.E.
Engineer of Materials

A handwritten signature in blue ink, appearing to read 'D. H. Tobias'.

By:
Daniel H. Tobias, P.E.
Concrete and Soils Engineer

KRW/pk

cc: George Houston, District 1 Materials Engineer
Paul Welch, District 1 Bituminous, Aggregate, Concrete, Soils QA & R.S.O.
Kathy Winking, Coordinator of Testing

List of Approved Equipment

State Number	Equipment	Manufacturer	Model	Serial Number
IL18C1-400	Compression Machine	Test Mark	CM-2500-ID	150618H
IL18C1-401	Hot Plate	Thermolyne	HP2625R	26950686529
IL18C1-402	Hot Plate	Thermolyne	HP2625R	26950686532
IL10C8-810	Splitter CA	Gilson	SP-1	-
IL18C1-403	Splitter CA	Humboldt	H-3990	-
IL18C1-404	Splitter FA	Humboldt	H3964	10-01
IL18C1-405	Splitter CA	Soil Test	OL-2864	-
IL18C1-406	Splitter CA	Humboldt	CA-1	-
IL18C1-407	Splitter FA	Humboldt	FA-1	-
IL10C8-811	Splitter FA	Humboldt	H3962	-
IL10C8-813	Splitter FA	Gilson	SP-2	-
IL10C8-808	Slump Cone	-	-	A
IL10C8-809	Slump Cone	-	-	B
IL18C1-408	Slump Cone	-	-	C
IL18C1-409	Slump Cone	-	-	D
IL18C1-410	Slump Cone	-	-	F
IL18C1-411	Slump Cone	-	-	G
IL18C1-412	Slump Cone	-	-	H
IL18C1-413	Slump Cone	-	-	J
IL18C1-414	Slump Cone	-	-	O
IL18C1-415	Slump Cone	-	-	P
IL18C1-416	Air Meter Type B	Charles Watts	N-1	T340
IL18C1-417	Air Meter Type B	Concrete Specialties	N-5	-
IL18C1-418	Air Meter Type B	Concrete Specialties	N-6	L344
IL18C1-419	Air Meter Type B	Charles Watts	N-9	Z602
IL18C1-420	Air Meter Type B	Concrete Specialties	N-12	-
IL18C1-421	Air Meter Type B	Concrete Specialties	N-13	-
IL18C1-422	Air Meter Type B	Test Mark	N-14	-

IL18C1-423	Air Meter Type B	Charles Watts	N-15	T223
IL18C1-424	Air Meter Type B	Concrete Specialties	N-19	R005
IL10C8-806	Sieve Shaker	Rainhart	Mary Ann	NST-8-2
IL10C8-807	Aggregate Washer	Humboldt	H3919	W600-603-101049
IL10B8-300	Oven	Despatch	LBB2-18-1	180354
IL10B8-301	Oven	Despatch	LBB2-12-1	180353
IL10B8-302	Agg Drying Oven	Despatch	LBB2-18-1	180355
IL10B8-304	Hot Plate	Thermolyne	HP2620R	1703071114719
IL10B8-305	Hot Plate	Thermolyne	HP2620R	1703071114721
IL10B8-306	Balance	Ohaus	EB30	803074279
IL10B8-307	Balance	Ohaus	EP12001	1128503315
IL10B8-309	Balance	AE Adams	-	-
IL10B8-310	Sieve Shaker	Rainhart	Mary Ann	NST-8-1
IL10B8-311	Splitter CA	Gilson	SP-1	-
IL10B8-312	HMA Quartering Apparatus	Gilson	-	-
IL10B8-313	Ignition Oven	Thermolyne	F85930-33	1275100252801
IL10B8-314	Water Bath	Humboldt	H-1394	NST#1
IL10B8-315	Water Bath	Humboldt	H-1394	NST#2
IL10B8-316	Gyratory Compactor	Rainhart	-	299
IL10B8-317	Bulk Sp. Gr. Apparatus	-	-	-
IL10B8-319	Mixer	Kolmixal	60 Mixal	NSTB001
IL10B8-320	Compression Machine	Humboldt	HM-1327	410004
IL10B8-321	TSR Breaking Head	-	-	-
IL12B3-322	Splitter CA	Humboldt	H3992	-



CERTIFICATE OF ACCREDITATION



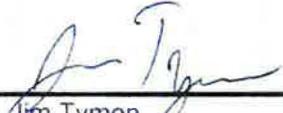
NASHnal Soil Testing, LLC

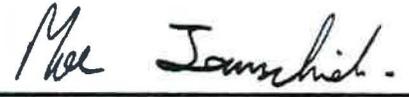
in

Plainfield, Illinois, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories (aashtoresource.org).


Jim Tymon,
AASHTO Executive Director


Moe Jamshidi,
AASHTO COMP Chair

This certificate was generated on 03/15/2019 at 10:59 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory



DEPARTMENT OF PROCUREMENT SERVICES

CITY OF CHICAGO

JUN 18 2018

Umar Ahmad
NASHnal Soil Testing, LLC
23856 West Andrew Road, Unit 103
Plainfield, IL 60585

REVISED

Dear Umar Ahmed:

We are pleased to inform you that **NASHnal Soil Testing, LLC** has been certified as a **Minority Business Enterprise ("MBE")** by the City of Chicago ("City"). This **MBE** certification is valid until **05/31/2019**; however your firm's certification must be revalidated annually. In the past the City has provided you with an annual letter confirming your certification; such letters will no longer be issued. As a consequence, we require you to be even more diligent in filing your **annual No-Change Affidavit 60 days** before your annual anniversary date.

Your firm's five-year certification will expire on **05/31/2019**. You have an affirmative duty to file for recertification **60 days** prior to the date of the five-year anniversary date. Therefore, you must file for recertification by **3/31/2019**.

It is important to note that you also have an ongoing affirmative duty to notify the City of any changes in ownership or control of your firm, or any other fact affecting your firm's eligibility for certification **within 10 days** of such change. These changes may include but are not limited to a change of address, change of business structure, change in ownership or ownership structure, change of business operations, gross receipts and or personal net worth that exceed the program threshold. Failure to provide the City with timely notice of such changes may result in the suspension or rescission of your certification. In addition, you may be liable for civil penalties under Chapter 1-22, "False Claims", of the Municipal Code of Chicago.

Please note – you shall be deemed to have had your certification lapse and will be ineligible to participate as a **MBE** if you fail to:

- File your annual No-Change Affidavit within the required time period;

JUN 18 2018

NASHnal Soil Testing, LLC

Page 2 of 2

- Provide financial or other records requested pursuant to an audit within the required time period;
- Notify the City of any changes affecting your firm's certification **within 10 days** of such change; or
- File your recertification within the required time period.

Please be reminded of your contractual obligation to cooperate with the City with respect to any reviews, audits or investigation of its contracts and affirmative action programs. We strongly encourage you to assist us in maintaining the integrity of our programs by reporting instances or suspicions of fraud or abuse to the **City's Inspector General at chicagoinspectorgeneral.org, or 866-IG-TIPLINE (866-448-4754).**

Be advised that if you or your firm is found to be involved in certification, bidding and/or contractual fraud or abuse, the City will pursue decertification and debarment. In addition to any other penalty imposed by law, any person who knowingly obtains, or knowingly assists another in obtaining a contract with the City by falsely representing the individual or entity, or the individual or entity assisted is guilty of a misdemeanor, punishable by incarceration in the county jail for a period not to exceed six months, or a fine of not less than \$5,000 and not more than \$10,000 or both.

Your firm's name will be listed in the City's Directory of Minority and Women-Owned Business Enterprises in the specialty area(s) of:

NAICS Code(s):

541330 - Electrical engineering services

541380 - Laboratory testing (except medical, veterinary) services

541620 - Environmental consulting services

Your firm's participation on City contracts will be credited only toward **Minority Business Enterprise** goals in your area(s) specialty. While your participation on City contracts is not limited to your area of specialty, credit toward goals will be given only for work that is self-performed and providing a commercially useful function that is done in the approved specialty category.

Thank you for your interest in the City's Minority and Women-Owned Business Enterprise (MBE/WBE) Program.

Sincerely,



Rich Butler
First Deputy Procurement Officer

RB/sl



Thomas J. Ross
Executive Director

June 7, 2018

Umar Ahmad
Testing Tech's, Inc. D/B/A
NASHnal Soil Testing LLC
23856 W. Andrew Road, Unit 103
Plainfield, IL 60585

Dear Mr. Ahmad:

Pace Suburban Bus has reviewed your annual No Change Affidavit and supporting documentation and is pleased to inform you that your firm continues to meet the Disadvantaged Business Enterprise (DBE) program certification eligibility standards set forth in 49 CFR Part 26.61. Your next No Change Affidavit is due **July 15, 2019**. Notification will be sent to you sixty (60) days prior to this date.

This certification allows your firm to participate as a DBE in the Illinois Unified Certification Program (IL UCP). The participating agencies include the Illinois Department of Transportation, the City of Chicago, the Chicago Transit Authority, Metra and Pace.

If there is any change in circumstances that affect your ability to meet size standards, disadvantaged status, ownership, or control requirements or any material change in the information provided in your initial application, you must provide written notification to this agency within thirty (30) days of the occurrence of the change. Failure to provide this information is a ground for denial of certification based on failure to cooperate pursuant to 49 CFR 26.109(c).

The Directory is used by prime contractors/consultants, as well as other agencies, to solicit participation of DBE firms. The Directory can be accessed on the Internet at www.pacebus.com. Your firm's name will appear in the IL UCP DBE Directory under the following category name(s):

- NAICS Code: 541380 Testing Laboratories;
 - Specialty: geotechnical testing, concrete testing, soil testing, and asphalt testing

- NAICS Code 541330 Engineering Services;
 - Specialty: structural steel inspection, field inspection, fire-proofing testing, parking and roadway inspections, geotechnical investigation and engineering inspections

Your participation on contracts will only be credited toward DBE contract goals when you perform in your firm's approved area(s) of specialty. Credit for participation in an area outside your specialty requires prior approval (verification of resources, expertise, and corresponding support documentation, etc.).

Sincerely,

A handwritten signature in black ink, appearing to read "Donald Mayes", with a stylized flourish at the end.

Donald Mayes
DBE Liaison Officer



U.S. SMALL BUSINESS ADMINISTRATION
WASHINGTON, D.C. 20416

September 30, 2016

Umar T. Ahmad, Member/CEO
NASHnal Soil Testing, LLC
1707 Quincy Avenue, Unit 151
Naperville, Illinois 60540-6690

Dear Mr. Ahmad:

Congratulations! Your firm has been certified as a Participant in the U.S. Small Business Administration's (SBA) 8(a) Business Development Program. Your nine (9) year program term begins on the date of this letter.

During participation in the 8(a) BD Program, you will receive business development assistance from an assigned Business Development Specialist in the Illinois District Office located at 500 West Madison Street, Suite 1150, Chicago, Illinois 60661. The phone number is (312) 353-4528. We are sending a copy of this certification letter to the SBA Illinois District Office. That office will contact you to schedule an orientation session. This could take up to 4-6 weeks. In the meantime, there are steps you should take to start your participation in the program.

Next Steps

- **Read and Sign Participation Agreement:** SBA requires the 8(a) participant's President or Chief Executive Officer sign a Participation Agreement showing he or she understands the conditions of 8(a) BD program participation. Please find the Agreement attached to the approval email associated with this letter. Please read the Agreement carefully, sign and date it, and make a copy. Return one copy to the SBA Illinois District Office at the address shown in the second paragraph above. The second copy is for your records.
- **Develop Your Business Plan:** We encourage you to start developing your business plan. Current 8(a) BD program regulations require a firm, once certified, to promptly submit a business plan which must be approved by the SBA before the firm is eligible to receive 8(a) benefits; including 8(a) contracts. Once approved, the business plan will be reviewed annually and may be modified as needed. We offer an optional format for business plans. To consider the optional 8(a) Business Plan Form 1010C, please go to: <https://www.sba.gov/sites/default/>

files/SBA%201010C.pdf.

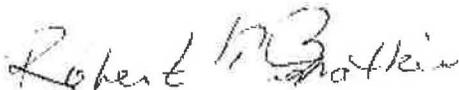
- **Develop Your Strategy for Winning Contracts in Year 1:** Though your firm's approved North American Industry Classification System (NAICS) Code is 541330, your firm may be awarded contracts under other NAICS Codes, as long as your firm is qualified to perform the required service or task. In this regard, please note that contracts awarded under 8(a) Business Development Program authority generally result from the self-marketing efforts of participating firms. You must build relationships with potential federal customers, pursue federal prime contractors for subcontracts, and aggressively pursue prime contract opportunities to grow your business. Successful 8(a) firms regularly respond to competitive small business contracting opportunities posted on www.FBO.gov. Establish a goal and vision for winning at least two (2) competitive contracts during your first year.

- **Utilize Resources:** There are valuable FREE resources available to you right now that offer expertise in all areas of business operation including reviewing your business plan and strategy. Two resources that you can utilize today are:
 - o **SBA Resource Partners:** I encourage you to locate your nearest Resource Partner, please go to: <https://www.sba.gov/tools/local-assistance>. This link will provide access to upcoming small business events and the webpage for your District SBA Office, also.

- o **7(j) Management and Technical Assistance:** While your firm's acceptance into the 8(a) Business Development program is not a guarantee for contracts, the SBA will make every effort to assist you in implementing your business plan and strategy. Your success in the program is dependent upon the extent to which you take advantage of SBA's efforts to support you. One of the agency's major tools for your success is the 7(j) Management and Technical Assistance Services Program. For more information, click on the following link: <https://www.sba.gov/about-sba/sba-initiatives/7j-management-and-technical-assistance-services-program>

I am excited about your future, and I welcome you as an 8(a) Business Development Program participant. Wishing you much success!

Sincerely,



Associate Administrator
for Business Development



DEPARTMENT OF THE ARMY
ENGINEER RESEARCH AND DEVELOPMENT CENTER, CORPS OF ENGINEERS
GEOTECHNICAL AND STRUCTURES LABORATORY
WATERWAYS EXPERIMENT STATION, 3909 HALLS FERRY ROAD
VICKSBURG, MISSISSIPPI 39180-6199

July 13, 2017

Reply to the Attention of:
Concrete and Materials Branch

Umar T. Ahmad
NASHnal Soil Testing, LLC
1707 Quincy Avenue, Unit #151
Naperville, IL 60540

Dear Mr. Ahmad:

In reference to your check no. 3183, dated June 14, 2017, and audit agreement, dated June 14, 2017, an audit based on your AASHTO Accreditation was performed on documents submitted by your laboratory. We examined the AMRL On-site Assessment Report No. R20471, dated March 18, 2016, the CCRL Inspection Report No. C-433, dated November 7, 2014 and the AASHTO accreditation certificate effective July 11, 2017. Your Quality System meets the requirements of the U.S. Army Corps of Engineers. The material test methods that you are validated to perform for the U.S. Army Corps of Engineers were determined from the inspection reports from AASHTO and are as follows:

Aggregate Tests: ASTM C117, C127, C128, C136, C29, C566, C702, C1077, C1252, D75, D3666, and E329.

Bituminous Tests: ASTM D2041, D2172, D2726, D2950, D3203, D3666, D4867, D5444, D6307, D6925, and E329.

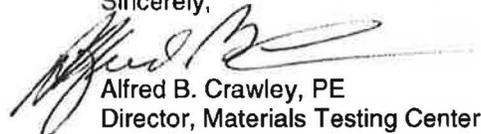
Concrete Tests: ASTM C31, C39, C138, C143, C172, C173, C231, C1064, C192, C293, C511, C617, C1077, C1231, and E329.

Soil Tests: ASTM D421, D422, D698, D1140, D1557, D2166, D2216, D2487, D2488, D2974, D3740, D4318, D4972, D6938, and E329.

Sprayed Fire-Resistive Materials: ASTM E605 and E736.

We will add your laboratory to the list of commercial laboratories qualified to conduct material tests for the U.S. Army Corps of Engineers; see the Materials Testing Center homepage at <http://www.erd.usace.army.mil/Media/FactSheets/FactSheetArticleView/tabid/9254/Article/476661/materials-testing-center.aspx>. All Corps offices will be notified of this decision and will have the opportunity to use your services. NASHnal Soil Testing, LLC, Naperville, IL will remain on our list of laboratories qualified to conduct material tests until **July 11, 2019** two (2) years from the date of the audit. In the event your AASHTO accreditation is suspended in whole or part, NASHnal Soil Testing, LLC, Naperville, IL to notify the Materials Testing Center immediately to perform a re-evaluation of your laboratory's validation. Failure to notify the Materials Testing Center will result in immediate suspension of your U.S. Army Corps of Engineers validation.

Sincerely,



Alfred B. Crawley, PE
Director, Materials Testing Center

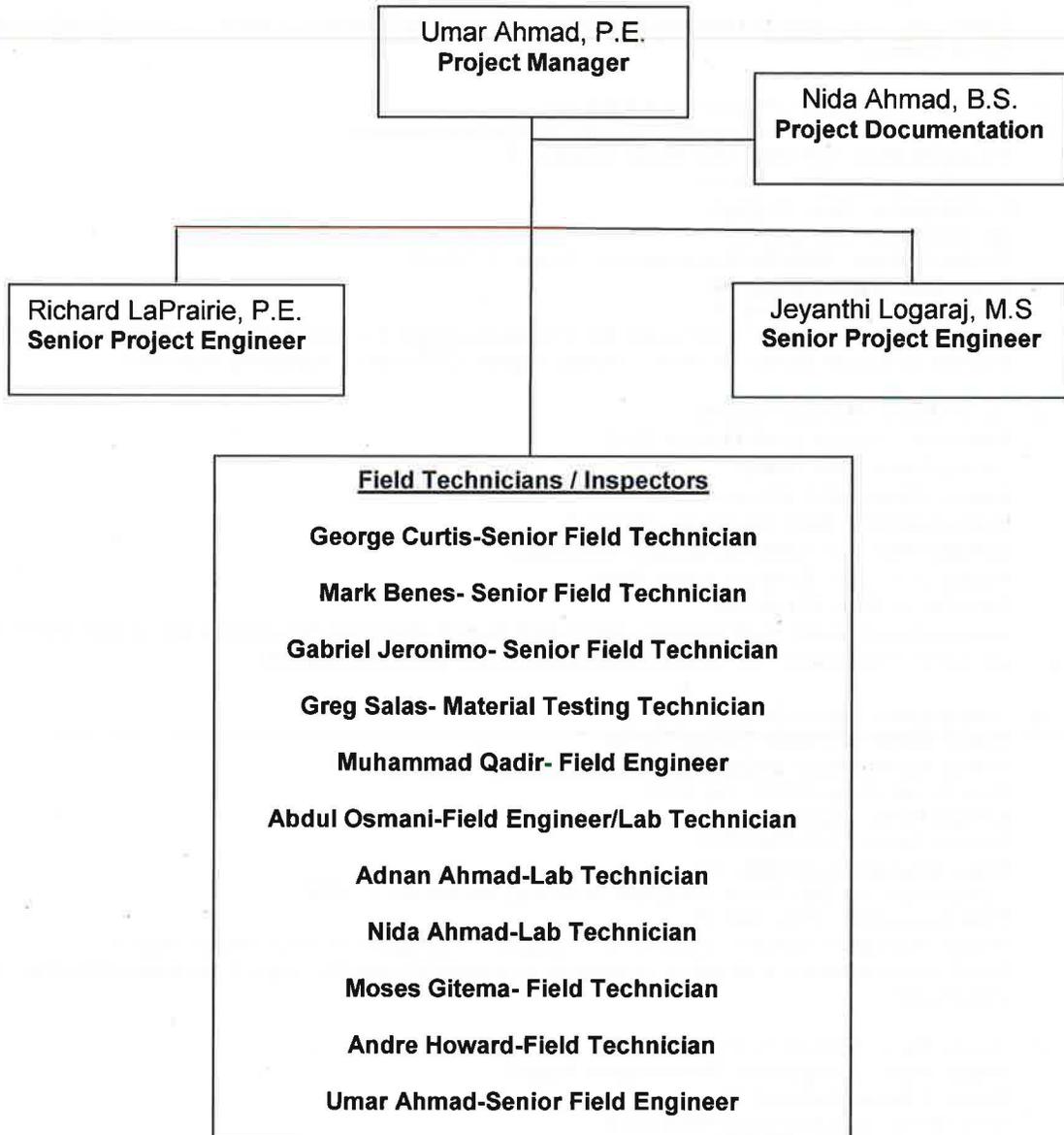
Copy Furnished:
Chicago District, Kent Smith



References

1. Client Name: City of Geneva
Time Period: June 2018- Current
Contact Name: Elton Orozco
Contact Phone: (630) 232-1279
Contact Address: 1800 South St., Geneva, IL
Contact email: corozco@geneva.il.us
Project Description: 2018-2019 Street Improvements
Total Fee by Firm: \$43,000.00
Construction inspection and material testing of pavements and sidewalks at various streets throughout the City of Geneva.
2. Client Name: Joseph J Henderson & Sons, Inc.
Project Name: MWRD-Jardine WPP Medium Voltage Improvements
Project Address: 1000 East Ohio Street, Chicago, IL
Time Period: April 2017- Current
Contact Name: Jason Rudolph
Contact Phone: (847) 244-3222
Contact Address: 4288 Old Grand Avenue, Gurnee, IL 60316
Email: JasonR@jjhenderson.com
Total Fee by Firm: \$75, 000.00
: Construction of generator building and fuel storage building to the Jardine Water Purification Plant. Work involved drilled pier foundation, soils, concrete, asphalt, CCDD and Fireproofing inspection.
3. Client Name: Macoupin County
Time Period: August 2016- October 2016
Contact Name: Dale Watson
Contact Phone: (618) 401-4561
Contact Address: Macoupin County, Girard, IL
Contact email: Dale.watson@macoupincountyil.gov
Project Description: Emerson Airport Road
Total Fee by Firm: \$61,000.00
Construction of Airport Road including stabilization study to determine the optimum soil-cement mix in the lab, cement stabilization, mix design using freeze-thaw and wet-dry methods.
4. Client Name: Banner Development
Project Name: Northtown Storage Facility
Project Address: 6341 McCormick Blvd., Chicago, IL
Time Period: August 2016- July 2017
Contact Name: Joseph Dziekan
Contact Phone: (847) 656-5110
Email: jdziekan@bannereg.com
Contact Address: 500 Skokie Boulevard, Suite 600, Northbrook, IL 60062
Total Fee by Firm: \$100, 000.00
Project Description: Climate Control six Story Storage Building and Parking Lots, Chicago, IL
Construction inspection and testing services for a six story Storage Building and associated Parking Lots construction.
5. Client Name: ASI-ECI Joint Venture
Project Name: Lockport Pool Rehabilitation Stage C
Project Address: Lockport, IL
Time Period: July 2015- September 2016
Contact Name: Sean Tomason.Jordan Dutio
Contact Phone: (719) 248-3949
Email: jdutoi@asiconstructors.com
Contact Address: 1850 E. Paltteville Blvd., Pueblo West, CO-81007
Total Fee by Firm: \$390, 000.00
Project Description: Construction of a 40 feet high and 1800 feet long dam using 780,000 cubic yards of roller compacted concrete (RCC).

ORGANIZATION CHART



Umar T. Ahmad, P.E.

Chairman CEO
Project Manager / Project Coordinator

University of Nevada-Reno, Ph. D. Candidate

University of Nevada-Reno, MSCE, 1992

University of Punjab-Lahore, Pakistan, MS, Applied Geology, 1986

University of Punjab-Lahore, Pakistan, BS, Applied Geology, 1985

Certifications

IDOT Documentation of Contract Quantities – 2023
IDOT Fundamentals of Storm Water Pollution and Erosion and Sediment Control-2014
IDOT Hot Mix Asphalt – Level I, Level II, Level III – 2008
IDOT PCC - Level I, Level II, Level III - 2008
IDOT S 33 Geotechnical Field Testing and Inspection Certification
IDOT – Mixture Aggregate - 2008
IDOT Bituminous Concrete Density Tester (QA/QC Density Tester)– 2008
IMIR's & ICORS Training
ACI Concrete Inspection & Testing Level I – 2022
ACI Concrete Strength Testing Technician – 2023
ACI Concrete Laboratory/Aggregate Testing Technician – 2023
Nuclear Density Gauge Safety – 2020
Certified Radiation Officer – 2008
Visual Weld Inspection Training – ASNT Level II
Ultrasonic Weld Inspection Training – ASNT Level II
Magnetic Particle Inspection Training – ASNT Level II
Penetrant Testing Training – ASNT Level II
Precast/Pre-stressed PCI Level I, Level II, & Level III – 2021
Certified Floor Profiler Using F.A.C.E. Equipment – Floor Flatness/Levelness
Missouri QC/QA Training: Bituminous Technician, Concrete Field, Concrete Strength, Superpave QA/QC

Professional Licenses

Licensed Professional Engineer:
Illinois # 062-055148
Wisconsin # 34833-6
Indiana # 10200276
Michigan # 6201048936
Missouri # 2011007467
Nevada #14560

Professional Societies

Illinois Society of Professional Engineers (ISPE),
Chicago Chapter – Past Vice President/Secretary
American Society of Civil Engineers (ASCE),
Geotechnical Group, Chicago Chapter – Past Chair
National Society of Professional Engineers (NSPE),
Member
American Council of Engineering Companies of
Illinois (ACEC) Member

Experience

2010 to Present (NASHnal Soil Testing, LLC – Chairman, CEO)

Exceptional, visionary leader with over twenty four years of technical, business, and leadership experience in public and private sectors with the ability to formulate, execute, and adjust the business strategy as needed.

2006 to 2010 (GSG Material Testing, Inc. - Vice President / Junior Partner)

Sole responsible of daily operations of the business. Supervised all office staff including licensed professional engineers, junior engineers, secretaries, laboratory staff and field technicians. Interview potential employees for recruiting and team building. Client interface and technical consultation. Started a New Material Testing laboratory, purchased all equipment, calibrated and installed, trained technician and received AMRL, CCRL along with IDOT HMA, Concrete and Soils certifications. Responsible for reviewing all QA/QC reports.

2003 to 2006 (H. H. Holmes Testing Laboratories, Inc. - Marketing & Field Engineering Director)

Marketing Director - Responsible for strategic business initiative and execution of the business plan to achieve growth, profitability and business integration within Chicagoland and neighboring states. Some of the current responsibilities are: Increasing market visibility; Obtaining new business and maintaining client relations; Negotiation and administration of contracts; **Field Engineering Director** - Supervise and manage material testing laboratory and multiple construction projects. Responsible for reviewing technical reporting (i.e. daily field investigation work), client consultation related to field problems, trouble shooting, quality assurance and quality control (QA/QC) during construction of public works and private projects. Review and prepare geotechnical exploration reports. Personally responsible for budget preparation of all the material testing projects and monitoring the budget as the project progresses. Oversee all the field engineers' work, especially during field testing and. Pre-Stressed/Pre-Cast plant inspection

2001 to 2003 (GME Consultants of Illinois, Inc. - Principal Engineer)

Consulting Engineer - Responsible for reviewing and updating the results of Sub surface exploration, Geotechnical data investigation and engineering studies for various design sections, report preparation and recommendations for design and construction. Pavement design, in accordance with IDOT, WisDOT and INDOT standards.

Supervise & Manage - Material testing laboratory and multiple construction projects. Responsible for reviewing daily field investigation reports, problem solving, quality assurance and quality control (QA/QC) during construction of public and private projects. Perform review of field engineer's work. Supervise group of field technicians, senior technicians and mentoring the young engineers.



NASHnal Soil Testing, LLC.

23856 W. Andrew Rd., Unit 103

Plainfield, IL 60585

314-587-5391

uahmad@nstengr.com

www.nstengr.com

Umar T. Ahmad, P.E.

Experience Continued

1992 to 2001 (Pezonella Associates, Inc. - Senior Geotechnical Engineer)

Started as junior engineer after college, promoted to project engineer, project manager and attained the highest rank as senior engineer at Pezonella Associates, Inc. Evaluation of bituminous and concrete material test results and cores to recommend mitigation as outlined by public works officials and other agencies for QA/QC. Enforcing adherence and verification of conformance to specification for general and public work's construction, which include site visit for contractors work evaluation and recommendations in case of discrepancy and problems in the field.

Specific Project Experience

I-355 Widening - Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data prior to submitting to Tollway.

I-294 & I-90 Intersection, Patch repair work - Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data for bituminous asphalt prior to submitting to IDOT.

I-290 & I-94 Intersection, Patch repair work - Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data for soils and asphalt, prior to submitting to IDOT.

I-88 Toll Plaza - Project Manager. Supervised Material testing technicians and laboratory staff, and reviewed all field and lab data for concrete, prior to submitting to IDOT.

I-57 Manhattan-Monee Road Bridge Constructions - Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data for concrete, prior to submitting to IDOT.

Sheridan Road Reconstruction (Winnetka) - Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data for soils and concrete, prior to submitting to IDOT.

Milwaukee Avenue & Harts Road Intersection (Niles), Reconstruction - Project Manager. Supervised Material testing technicians and laboratory staff, and reviewed all field and lab data prior to submitting to IDOT.

Emerson Avenue & Maple Avenue Intersection (Evanston) Reconstruction - Project Manager. Supervised Material testing technicians and laboratory staff, and reviewed all field and lab data prior to submitting to IDOT.

Cook Street & Ash Avenue (Wauconda), Reconstruction - Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data prior to submitting to IDOT.

O'Hare Runway 10C/28C East End Taxiway - Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data prior to submitting to Contractor & OMP.

Various Chicago Public Schools, Chicago, IL- Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data prior to submitting to Public Building Commission, Chicago.

Grand Warehouse, Northlake, IL- Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data.

Great Lake Naval Station, Great Lakes, IL- Supervised material testing technicians and laboratory staff, and reviewed all field and lab data.

UPRR High Speed Rail Road-Tier II, Tier III, Tier IV and Tier VI (Various locations between Joliet & Springfield)- Supervised material testing technicians and laboratory staff, and reviewed all field and lab data prior.

Employment History

<u>Time Period</u>	<u>Company Name</u>	<u>Title/Position</u>
2010 to Present	NASHnal Soil Testing, LLC.	Chairman -CEO
2006 to 2010	GSG Material Testing, Inc.	Vice President / Junior Partner
2003 to 2006	H. H. Holmes Testing Laboratories, Inc.	Marketing & Field Engineering Director
2001 to 2003	GME Consultants of Illinois, Inc.	Principal Engineer
1992 to 2001	Pezonella Associates, Inc.	Senior Geotechnical Engineer



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uahmad@nstengr.com

Mark Benes

Senior Field Technician

Glenbard North High School, Carol Stream, IL-GED 2003

Certifications

IDOT Documentation of Contract Quantities – 2016
IDOT Hot Mix Asphalt – Level I– 2011, 2013
IDOT Hot Mix Asphalt – Level II– 2011, 2013
IDOT PCC – Level I– 2003
IDOT PCC - Level II - 2003
IDOT S 33 Geotechnical Field Testing and Inspection Certification
IDOT – Mixture Aggregate 2 Days, 3 Days – 2003, 2014
IDOT Bituminous Concrete Density Tester (QA/QC Density Tester)–2011
High Strength Bolting of Steel – 2012
Nuclear Density Gauge Safety – 2015
IDOT Specific Gravity

Professional Licenses

Professional Affiliations

Member: Operating Engineers Union, Local 150

Experience

2018 to Present (NASHnal Soil Testing, LLC – Senior Field Technician)

Field Inspector performing Construction Inspection and Material Testing Services. Performed Field soil testing using nuclear density gauge and compared the results with the standard or modified proctor (ASTM D 698/ ASTM D 1557). Additionally provided Recommendation's for remediation when required. Evaluation of concrete material test results and cores to recommend mitigation as outlined by public works officials and other agencies for QA/QC. Enforcing adherence and verification of conformance to specification for general and public work's construction, which include site visit for contractors work evaluation and recommendations in case of discrepancy and problems in the field.

2012 to 2018 (Material Service Testing, Elk Grove village, IL-QA representative–Construction Materials)-Lead Technician responsible for implementation and management of the contractor's Quality Control program including coordination, supervision and documentation of construction inspection and testing services for Illinois Tollway and private projects. Performed Field soil testing using nuclear density gauge and compared the results with the standard or modified proctor (ASTM D 698/ ASTM D 1557). Additionally provided Recommendation's for remediation when required. Evaluation of bituminous and concrete material test results and cores to recommend mitigation as outlined by public works officials and other agencies for QA/QC. Enforcing adherence and verification of conformance to specification for general and public work's construction, which include site visit for contractors work evaluation and recommendations in case of discrepancy and problems in the field.

2011 to 2012 (Stork Twin City Testing, St. Paul, MN – Material Technician)

Field Inspector performing Construction Inspection and Material Testing Services for 72 Wind Turbines in Sparkville, Kansas and 119 Wind Turbines in Luverne, Minnesota. Performed Field soil testing using nuclear density gauge and compared the results with the standard or modified proctor (ASTM D 698/ ASTM D 1557). Additionally provided Recommendation's for remediation when required. Evaluation of concrete material test results and cores to recommend mitigation as outlined by public works officials and other agencies for QA/QC. Enforcing adherence and verification of conformance to specification for general and public work's construction, which include site visit for contractors work evaluation and recommendations in case of discrepancy and problems in the field.

2010 to 2011 (Stork Twin City Testing, St. Paul, MN – Material Technician)

Field Inspector performing Construction Inspection and Material Testing Services for 37 Wind Turbines in Little Falls, New York. Performed Field soil testing using nuclear density gauge and compared the results with the standard or modified proctor (ASTM D 698/ ASTM D 1557). Additionally provided Recommendation's for remediation when required. Evaluation of concrete material test results and cores to recommend mitigation as outlined by public works officials and other agencies for QA/QC. Enforcing adherence and verification of conformance to specification for general and public work's construction, which include site visit for contractors work evaluation and recommendations in case of discrepancy and problems in the field.

2008 to 2009 (Stork Twin City Testing, St. Paul, MN – Material Technician)

Field Inspector performing Construction Inspection and Material Testing Services for 150 Wind Turbines in Emington, IL. Performed Field soil testing using nuclear density gauge and compared the results with the standard or modified proctor (ASTM D 698/ ASTM D 1557). Additionally provided Recommendation's for remediation when required. Evaluation of concrete material test



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mbenes@nstengr.com

Mark Benes

Experience Continued

results and cores to recommend mitigation as outlined by public works officials and other agencies for QA/QC. Enforcing adherence and verification of conformance to specification for general and public work's construction, which include site visit for contractors work evaluation and recommendations in case of discrepancy and problems in the field.

2006 to 2008 (K&S Engineering, Lombard, IL-Material Technician)

Performed Field soil testing using nuclear density gauge and compared the results with the standard or modified proctor (ASTM D 698/ ASTM D 1557). Additionally provided Recommendation's for remediation when required. Evaluation of bituminous and concrete material test results and cores to recommend mitigation as outlined by public works officials and other agencies for QA/QC. Enforcing adherence and verification of conformance to specification for general and public work's construction, which include site visit for contractors work evaluation and recommendations in case of discrepancy and problems in the field.

2003 to 2005 (JMP Engineering, West Chicago, IL-Material Technician)

Performed Field soil testing using nuclear density gauge and compared the results with the standard or modified proctor (ASTM D 698/ ASTM D 1557). Additionally provided Recommendation's for remediation when required. Evaluation of bituminous and concrete material test results and cores to recommend mitigation as outlined by public works officials and other agencies for QA/QC. Enforcing adherence and verification of conformance to specification for general and public work's construction, which include site visit for contractors work evaluation and recommendations in case of discrepancy and problems in the field.

Specific Project Experience

Reconstruction of 159th Street, Orland Park, IL – Quality Assurance Materials Technician. Material testing technician responsible for material testing including but not limited to footing inspection, concrete testing, steel reinforcement inspection, grout testing, proof rolls and compaction inspection.

Reconstruction of Rte. 30 and Renwick Road, Plainfield – Quality Assurance Materials Technician. Material testing technician responsible for material testing including but not limited to footing inspection, concrete testing, steel reinforcement inspection, grout testing, proof rolls and compaction inspection. Completing all reports and turning over to documentation engineer and material coordinator.

Reconstruction of Elmhurst Road Bridge at I-90 in Elk Grove Village- Quality Assurance Materials Technician. Material testing technician responsible for material testing including but not limited to footing inspection, concrete testing, steel reinforcement inspection, grout testing, proof rolls and compaction inspection. Completing all reports and turning over to documentation engineer and material coordinator.

IL Tollway I-90 Jane Addams Memorial Shoulder Widening from MP 27.6 to 45.0- Quality Assurance Materials Technician. Material testing technician responsible including inspection on asphalt removal, shoulder widening and stabilization, pavement patching, guardrail installation, concrete barrier installation, asphalt paving and median Crossover construction.

Wind Turbines-102 wind turbines in Herscher, IL, 150 wind turbines in Emington, IL, 37 wind turbines in Little Falls, NY, 72 wind turbines in Spearville, KS, 119 wind turbines in Luverne, MN, and 150 wind turbines in Dwight,

IL-Field and Lab Technician. Performed concrete testing in the field and lab, gradation, Proctor testing in Lab, Proof roll observation, bearing capacity using static, cone penetrometers, density testing using nuclear density gauge and DCP.

O'Hare Runway Widening- Quality Assurance Materials Technician. Material testing technician responsible for material testing including but not limited to footing inspection, concrete testing, steel reinforcement inspection, grout testing, proof rolls and compaction inspection.

I-80 & Route 45 in Tinley Park- Quality Assurance Materials Technician. Material testing technician responsible for material testing including but not limited to footing inspection, concrete testing, steel reinforcement inspection, grout testing, proof rolls and compaction inspection.

I-74 in Peoria- Quality Assurance Materials Technician. Material testing technician responsible for material testing including but not limited to footing inspection, concrete testing, steel reinforcement inspection, grout testing, proof rolls and compaction inspection.

Employment History

<u>Time Period</u>	<u>Company Name</u>	<u>Title/Position</u>
2018 to Present	NASHnal Soil Testing, LLC.	Senior Field Technician
2008 to 2012	Stork Twin City Testing	Material Technician
2006 to 2008	K&S Engineering	Material Technician
2003 to 2005	JMP Engineering	Material Technician



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Jeyanthi Logaraj

Senior Project Engineer/Lab Technician

Baylor University, Waco, TX; MS, Environmental Studies, 1996
University of Madras, Coimbatore, India, BS, Civil Engineering, 1986

Certifications

IDOT Documentation of Contract Quantities – 2019
IDOT Hot Mix Asphalt – Level I, Level II– 2012
IDOT PCC - Level I, Level II - 2012
IDOT S 33 Geotechnical Field Testing and Inspection Certification
IDOT – Mixture Aggregate - 2006
IDOT Bituminous Concrete Density Tester (QA/QC Density Tester)– 2006
IMIR's, ICORS & e-builder Training
ACI Concrete Field Testing Technician Level I – 2023
ACI Concrete Strength Testing Technician-2023
Nuclear Density Gauge Safety – 2020
NICET Soils Level I-2020
NICET Concrete Level I-2020
NICET Asphalt Level I-2020
ICC Spray Applied Fireproofing-2020

Professional Licenses

Experience

2014 to Present (NASHnal Soil Testing, LLC – Senior Project Engineer)

Supervise junior engineers, laboratory staff and field technicians. Involved in Lab equipment calibration and Lab certification. Trained field and lab technicians for the projects. The scope of the services includes contractor oversight, contract document review along with soils, asphalt, concrete and reinforcing steel inspections.

2009 to 2014 (GSG Material Testing, Inc. – Project Manager)

Responsible of daily scheduling and managing field technicians. Supervised office staff including junior engineers, secretaries, laboratory staff and field technicians. Interviewed potential employees for recruiting and team building. Involved with Lab equipment calibration and Lab certification. Trained field and lab technicians for the projects. Responsible for report writing, reviewing and submitting all QA/QC reports on IDOT and IMIRS reporting system. Prepared field technicians reports and sent them to clients within 24 hours via email. Managed the entire public and private projects within the proposed budget.

2000 to 2009 (Terracon Consultants, Inc. – Lab Technician, Project Manager/Environmental and Project Manager/Material Testing)

Lab Technician: Responsible for Lab equipment calibration and inspection. Worked on proficiency Samples.

Environmental Scientist: Responsible for Environmental Phase I assessment and report preparation.

Material Testing Project Manager: - Supervise and manage material testing laboratory technicians and field technicians. Responsible for reviewing technicians reports (i.e. daily field investigation work). Quality assurance and quality control (QA/QC) during construction of public works and private projects. Review and prepare geotechnical exploration reports. Personally responsible for budget preparation of all the material testing projects and monitoring the budget as the project progresses. Oversee all the field engineers' work, especially during field testing and. Pre-Stressed/Pre-Cast plant inspection

1997 to 2009 (City of Waco Water Department-Environmental Inspector)

Responsible for developing a bench scale study on Powdered Activated Carbon Treatment a mandatory research for EPA which saved the city more than \$100,000.00. Responsible for controlling the quality of Waco's drinking water within the safe limits.



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jlogaraj@nstengr.com

Jeyanthi Logaraj

Experience Continued

Specific Project Experience

I-355 and I-88 Intermittent Concrete Pavement - Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data prior to submitting to Tollway.

I-294 & I-90 Jane Addams Memorial Tollway-Multiple Clients, Rockford - Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data for concrete and bituminous asphalt and submitted to IDOT and Tollway.

I-88 & I 294 - Project Manager. Supervised Material testing technicians and laboratory staff, and reviewed all field and lab data for concrete and asphalt, prior to submitting to IDOT.

I-294 Tristate Tollway-Road and Bridge Constructions - Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data for concrete, prior to submitting to Tollway.

I-355 Expansion, Joliet - Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data for soils and concrete, prior to submitting to IDOT.

Randall Road Widening, Elgin, IL- Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data for soils and concrete, prior to submitting to IDOT.

UPRR Bridge Construction, West Chicago - Project Manager. Supervised Material testing technicians and laboratory staff, and reviewed all field and lab data.

Various Chicago Public Schools, Chicago, IL- Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data prior to submitting to Public Building Commission, Chicago.

Siemens Winergy Project, Elgin, IL- Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data.

Various CTA-Red Line Projects, Chicago, IL- Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data prior to submitting to the client.

Various Commercial Building Projects (Walmart, Lowes and Walgreens), IL- Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data prior to submitting to the client.

Employment History

<u>Time Period</u>	<u>Company Name</u>	<u>Title/Position</u>
2014 to Present	NASHnal Soil Testing, LLC.	Senior Project Engineer
2009 to 2014	GSG Material Testing, Inc.	Project Manager
2000 to 2009	Terracon Consultants, Inc.	Project Manager
1996 to 1999	City of Waco	Environmental Inspector



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23856 W. Andrew Rd., Unit 103
Plainfield, IL 60585
630-780-5201

jlogaraj@nstengr.com

Abdul Majid Osmani

Osmania University, Hyderabad, India, BS, Civil Engineering, 1987

Field Engineer/Lab Technician

Certifications

IDOT Documentation of Contract Quantities
IDOT PCC - Level I
IDOT S 33 Geotechnical Field Testing and Inspection Certification
ACI Concrete Field Inspection & Testing Level I
Nuclear Density Gauge Safety
IDOT HMA Level I
IDOT Aggregate Tester Course
IDOT Density Tester

Experience

2017 to Present (NASHnal Soil Testing, LLC – Field Engineer/Lab Technician)

Involved in Lab testing, Lab equipment calibration and Lab certification. Trained field and lab technicians for the projects. The scope of the services includes contractor oversight, contract document review along with soils, asphalt, concrete and reinforcing steel inspections.

2016 to 2017 (ICCD, IL– Construction Manager)

Supervise and manage contractors working on new underground sewer drain & infiltration control system, grading of sub-base and base course and bituminous pavement parking lots, concrete sidewalks, driveways, curb & gutters, erosion control.

1998-2016 (Al-Shibel Engineering Consultants, Al-Sharooque and Al Harthi Consulting Engineers, Saudi Arabia. – Civil Engineer)

Responsible for planning, designing and creating architectural, structural, site, grading, elevation, sanitary, electrical, fire and alarm system drawings using AutoCAD for submission to City planning to obtain construction permits for high rise towers, residential and commercial buildings such as shopping malls and industrial complexes. Supervised technical, non-technical staff and contractors to ensure jobs were performed to specifications, designs and approved plans.

1987-1998 (Moghal Constructions-Civil Engineer)

Surveyed construction site, created conceptual and schematic plans of residential and commercial, single and multi-story buildings to obtain building permits. Prepared structural designs of numerous RCC residential and commercial complexes, college buildings and warehouse structures. Prepared detailed construction documents and shop drawings. Worked as resident engineer to manage project activities from concept to completion. Conducted audits to ensure adherence to quality and safety norms across the entire course of project execution.

Employment History

<u>Time Period</u>	<u>Company Name</u>	<u>Title/Position</u>
2017 to Present	NASHnal Soil Testing, LLC.	Field Engineer/Lab Technician
2016 to 2017	ICCD	Construction Manager
1998 to 2016	Al-Shibal Consultants	Civil Engineer
1987 to 1998	Moghal Constructions	Civil Engineer



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Gabriel Jeronimo

Field Technician

James H. Bowen High School – Chicago, IL 1998

Certifications

Soil & Bituminous Concrete Density Tester (QA/QC Density Tester) – Renewed 2015
ACI Concrete Inspection & Testing Level I – 2023
Nuclear Density Gauge Safety – 2020
High Strength Bolting of Steel Structure – 2011
Certified Floor Profiler Using F.A.C.E. Equipment – Floor Flatness/Levelness
OSHA – 10 Hours OSHA safety Training - 2009

Professional Licenses

Professional Affiliations

Member: Operating Engineers Union, Local 150

Experience

2015 to Present (NASHnal Soil Testing, LLC – Material Testing Technician)

Performed Soil Testing and Inspection Using Nuclear Density Gauge and reported the results to the office in accordance with the ASTM procedures.

2007 to 2014 (DLZ, Inc. – Material Testing Technician)

Performed concrete testing procedures in accordance with ASTM and plan specifications. Monitor, record and perform nuclear density testing for piping and foundation backfill. Monitor and record installation of dock walls sheet piling and beams. Operated slump cone, type B air meter, and various brands of nuclear density gauges. Monitor excavations for piping and record process and progress. Measure size and spacing on rebar for foundations. Assist contractors in trouble shooting excavations. Monitor lift placement for backfill process. Experience in confined space setting/trenches. Knowledge in proper trench excavation. Monitor mixing and placement of epoxy cement for turbine and vacuum engines. Monitor leveling of turbine units. Refinery safety trained for entering and working around and in live units.

1998 to 2007 (Infinity Intermodal – Fabrication Technician / Trailer Mechanic)

Repair and replace air valve systems, brake system parts, tires, electrical systems and miscellaneous parts on chassis. Repair and replace aluminum panels, posts, roofing, wood flooring as well as fabrication and installation or welding of various parts as needed for containers. Operated forklifts and hostler trailer. Operated various air tools. Operated stick welder and mig welder. Operated oxygen-acetylene torch and plasma cutting torch



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Gabriel Jeronimo

Experience Continued

Specific Project Experience:

Wind Farm Project in Pratt, KS- *Field Technician.* Material testing of soils, concrete and high strength grout and prepared reports of all daily field data collected prior to submitting to the client.

City of Geneva 2018 Road Improvements Project- *Field Technician.* Material testing of concrete, asphalt for pavements and prepared reports of all daily field data collected prior to submitting to the client.

Jardine Water purification Plant-Medium Voltage Improvements Project-- *Field Technician.* Material testing of soils, caissons, concrete and asphalt and prepared reports of all daily field data collected prior to submitting to the client.

Various Landfill Projects – *Field Technician.* Material testing of soil backfill and prepared reports of all daily field data collected prior to submitting to the client.

Various Chicago Public School Playground Addition- *Field Technician.* Material testing of soils, concrete and asphalt and prepared reports of all daily field data collected prior to submitting to the client.

Various Menards Remodel Project- *Field Technician.* Material testing of soils, concrete and asphalt and prepared reports of all daily field data collected prior to submitting to the client

Various UPRR Projects- *Field Technician.* Material testing of sub ballast and soils backfill, concrete for the bridges and concrete and asphalt at the railroad crossings and prepared reports of all daily field data collected prior to submitting to the client.

Enbridge Tank Facility - Material testing of soil backfill & concrete placement Inspection testing and prepared reports of all daily field data collected prior to submitting to the client.

BP – Whiting, IN - Material testing of soil backfill, concrete placement and testing and prepared reports of all daily field data collected prior to submitting to the client.

Employment History

<u>Time Period</u>	<u>Company Name</u>	<u>Title/Position</u>
2015 to Present	NASHnal Soil Testing, LLC.	Material Testing Technician
2007 to 2014	DLZ, Inc	Material Testing Technician
1998 to 2007	Infinity Intermodal	Fabrication Technician



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Gregory P. Sallas

Field Technician

Sound Engineer-Columbia College, Chicago, IL-1990-1992

Certifications

PCC I/IDOT/ACI Level I
 ACI Concrete Inspection & Testing Level I – 2023
 B&F Technical Code Services-2005
 Certified Building Inspector
 ICC/AACE Code Enforcement Officer
 Commercial Building Inspector
 Zoning Inspector
 Accessibility Inspector/Plans Examiner
 ICC/AACE Property Maintenance and Housing Inspector
 Residential Building Inspector

Professional Licenses

Experience

2017 to Present (NASHnal Soil Testing, LLC – Material Testing Technician)

Performed Concrete and soil Testing and Inspection and reported the results to the office in accordance with the ASTM procedures.

2015 to 2017 (Will County– Building Inspector)

Oversaw residential and commercial building inspections for code and compliance.

2006 to 2015 (Village of Shiller park– Building Inspector and Code Enforcement Officer)

Oversaw residential and commercial building inspections for code and compliance.

1996 to 2006 (Kass Management, Chicago– Building Engineer)

Responsible for day to day operations of mechanical equipment at residential condo buildings.

Specific Project Experience with NASHnal Soil Testing, LLC:

Wind Farm Project in Pratt, KS- Field Technician. Material testing of soils, concrete and high strength grout and prepared reports of all daily field data collected prior to submitting to the client.

City of Geneva 2018 Road Improvements Project- Field Technician. Material testing of concrete, asphalt for pavements and prepared reports of all daily field data collected prior to submitting to the client.

Employment History

<u>Time Period</u>	<u>Company Name</u>	<u>Title/Position</u>
2017 to Present	NASHnal Soil Testing, LLC.	Material Testing Technician
2015 to 2017	Will County	Building Inspector
2006 to 2015	Village of Schiller Park	Building Inspector
1996 to 2006	Kass Management	Building Engineer



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CONSTRUCTION INSPECTION SERVICES

Related Experience of Firm

Project Title:	City of Geneva-2018 Street Improvements	Time Period:	June 2018-Current
Location of the Project:	Various Streets throughout City of Geneva	Period of Firm's Involvement:	June 2018-Current
Total Dollar Value of the Project:	\$	Total Fee by Firm:	\$ 43,800
Key personnel involved:			
Name		Role	
Umar T. Ahmad, P.E.		Project Director	
Gabriel Jeronimo		Field Technician	
Jeyanthi Logaraj		Project Engineer	
Role of the Firm:		Reference Information:	
<p>The provision of all on-site construction material quality assurance services for Phase III including, soils, asphalt, concrete inspection, asphalt thickness determination, pH of Soils and CCDD testing</p>		Name of Client:	Geneva Public Works Department
		Contact Person:	Elton Orozco
		Title:	Civil Engineer
		Address:	22 South First Street Geneva, IL 60134
		Telephone No.:	630-232-1279
		E-Mail:	corozco@geneva.il.us

Brief Description of the Project:

Principals and key employees of NST provided supervision, construction inspection and material testing for the city of Geneva 2018 Street Improvement project in Geneva, IL. Our scope of services included the following:

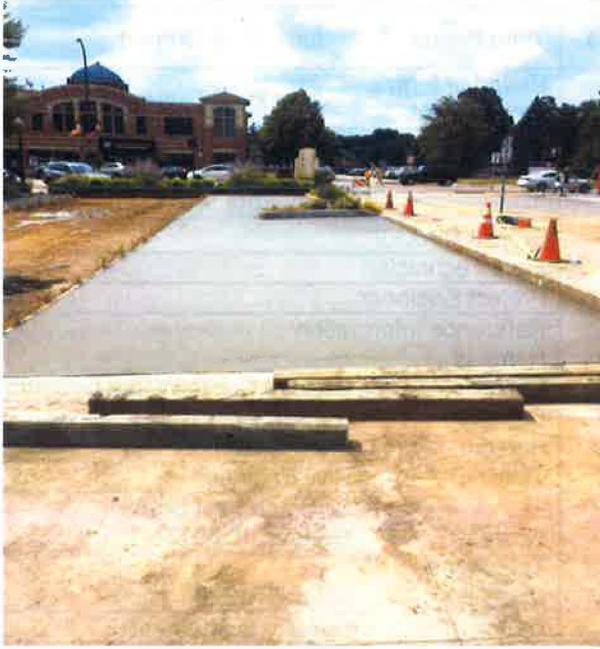
- Observation and Documentation of daily work activities by the contractor with regard to materials QA and for compliance with the contract documents and IDOT Standards.
- Performed inspection of asphalt placement, and performed density testing during asphalt placement.
- Performed field inspection of concrete placement and performed slump and temperature tests, and cast concrete cylinders as per the project specifications.
- Perform laboratory concrete compressive testing, laboratory testing of asphalt such as ignition oven, extractions, gyratory, gradations, and core density testing.
- Provided all laboratory testing services in support of field inspection services.





NASHnal Soil Testing, LLC.

CONSTRUCTION INSPECTION SERVICES





NASHnal Soil Testing, LLC.

CONSTRUCTION INSPECTION SERVICES

Related Experience of Firm

Project Title: MWRD-Jardine WPP Medium Voltage Improvements	Time Period: April 2017- Current
Location of the Project: 1000 East Ohio Street, Chicago, IL	Period of Firm's Involvement: April 2017 – Current
Total Dollar Value of the Project: \$	Total Fee by Firm: \$ 75,000.00
Key personnel involved:	
Name	Role
Umar T. Ahmad, P.E.	Project Director
Michael Kettmann, Gabriel Jeronimo	Field Technician
Umar T. Ahmad	Project Engineer
Role of the Firm: The provision of all on-site construction material quality control services, including, Drilled Pier Foundation soils, asphalt, reinforcing steel and concrete inspection and testing	Reference Information: Name of Client: Joseph J. Henderson & Sons, Inc. Contact Person: Jason Rudolph Title: Project Manager Address: Joseph J. Henderson & Sons, Inc. 4288 Old Grand Avenue Gurnee, IL 60316 Telephone No.: (847) 244-3222 E-Mail: JasonR@jjhenderson.vom

Brief Description of the Project:

NST performed construction inspection and material testing for the MWRD-Jardine WPP Medium Voltage Improvements project in Chicago, IL. NST's scope of services included the following:

- Performed inspection and testing during drilled shaft (caisson) foundation installation.
- Provided construction monitoring and compaction testing services during backfilling operations for the retaining wall and foundation wall backfill.
- Performed inspection and testing of concrete and reinforcing steel during placement.
- Provided all laboratory testing services in support of field inspection services.
- Performed inspection and testing of asphalt base course and surface material placement.





NASHnal Soil Testing, LLC.

CONSTRUCTION INSPECTION SERVICES





Related Experience of Firm

Project Title:	Naperville Township Street Improvements	Time Period:	May 2017
Location of the Project:	Various Streets throughout Naperville Township	Period of Firm's Involvement:	May 2017
Total Dollar Value of the Project:	\$	Total Fee by Firm:	\$ 10,000
Key personnel involved:			
Name		Role	
Umar T. Ahmad, P.E.		Project Director	
Pankaj Patel		Field Technician	
Umar T. Ahmad		Project Engineer	
Role of the Firm:		Reference Information:	
The provision of all on-site construction material quality control services for Phase III including, pavement marking installation and material testing.		Name of Client:	Brothers Asphalt
		Contact Person:	Jeffrey J. Cuttone
		Title:	Project Manager
			315 S. Stewart Avenue
		Address:	Addison, IL 60101
		Telephone No.:	630-458-1762
		E-Mail	jeff@brothersasphaltpaving.com

Brief Description of the Project:

Principals and key employees of NST provided supervision, construction inspection and material testing for the Naperville Township Street Improvement project in Naperville, IL. Our scope of services included the following:

- Provided Construction Quality Control Plan to City of Naperville on behalf of Brothers Asphalt, Inc.
- Observation and Documentation of daily work activities by the contractor with regard to materials QA and for compliance with the contract documents and IDOT Standards.
- Performed inspection of asphalt placement, and performed density testing during asphalt placement



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Lockport Pool Rehabilitation Stage C, Lockport, IL

Project Title: Lockport Pool Rehabilitation Stage C.	Time Period: June 2015– June 2017
Location of the Project: 2400 S. Powerhouse Drive, Lockport, IL	Period of Firm's Involvement: June 2015– Current
Total Dollar Value of the Project: \$ 700,000,000	Total Fee by Firm: \$ 450,000.00
Key personnel involved:	
Name	Role
Umar T. Ahmad, P.E.	Project Director
Gabriel Jeronimo, Ayhab Alhashmi	Field Technician
Umar T. Ahmad	Project Engineer
Role of the Firm:	Reference Information:
The provision of all on-site construction material quality control services, including soils, Roller Compacted Concrete (RCC), Concrete and Soil Compaction	Name of Client: ASI-ECI Joint Venture.
	Contact Person: Jordan Dutoi
	Title: Project Manager
	ASI Construction
	1850 E. Platteville Blvd.
	Pueblo West, CO-81007
	Address:
	Telephone No.: (719) 248-1715
E-Mail: jdutoi@asiconstructors.com	

Lockport Pool Rehabilitation Stage C, Lockport, IL

Construction of a 40 feet high and 1800 feet long DAM constructed using 780,000 cubic yards of Roller Compacted Concrete (RCC). Concrete was placed 24 hours a day by using large dump trucks and an onsite plant to produce RCC mix. RCC mix was designed in NST laboratory in Naperville. Construction started by building a level pad using dental concrete on and in between rock outcrop prior to the start of RCC placement.

Construction Material Testing Services of Soils, Grout, Roller Compacted Concrete (RCC) and Regular Concrete Testing.

- Provided Observation and testing during the placement of Roller Compacted Concrete and regular concrete by Making RCC Cylinders using vibration techniques and VeBe Equipment. Regular Concrete for Piles was tested using traditional standard methods of slump, entrained air & temperature. Cylinders were made to be tested at 7 & 28 days.
- RCC Cylinders were made using vibratory machines and VeBe equipment while compaction of RCC was tested using Nuclear Density Gauge. RCC Mix Design was also produced in NST laboratory with Tatrohind Consulting.
- Supervised construction Inspection and materials testing staff, both in the field and testing laboratory to ensure compliance with contract specifications.
- Reviewed soils, and concrete field and lab reports and submitted data in the required format for Army Corp of Engineers. Approximate construction cost of this project is \$700 million dollars.



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Emerson Airport Road, Girard, IL

Project Title:	Emerson Airport Road-Soil-Cement Stabilization and Mix Design for Macoupin County	Time Period:	August 2016– October 2016
Location of the Project:	Girard, IL	Period of Firm's Involvement:	August 2016– October 2016
Total Dollar Value of the Project:	\$	Total Fee by Firm:	\$ 61,000
Key personnel involved:		Role	
Name			
Umar T. Ahmad, P.E.		Project Director	
Jason Worker, Alex Trost		Field Technicians	
Douglas Diefenthal, Jeyanthi Logaraj		Project Engineers	
Role of the Firm:		Reference Information:	
The provision of soil-cement stabilization and Mix design using freeze-Thaw and Wet-Dry methods. Collected samples from 24 locations. Performed Mix Design Laboratory study. Lab tests consisted of full gradation, Atterberg Limits, Proctors, molding of compressive strength test cylinders with different cement contents		Name of Client:	Macoupin County
		Contact Person:	Dale Watson
		Title:	Project Manager
		Address:	Macoupin County Girard, IL
		Telephone No.:	618-401-4561
		E-Mail	Dale.watson@macoupincountyil.gov

Our services were to perform the stabilization study and determine the optimum soil-cement mix in the lab, compaction testing of stabilized soils along with molding of soil-cement concrete specimens in the field and laboratory services to provide concrete compressive strength.



In order to design the required cement ratio of the soil-cement mix, 24 samples of existing roadway material were obtained by NST. These material consisted of existing asphalt mixed with existing base material. Standard Proctor tests were performed to determine the maximum dry density, optimum moisture content of these materials when manipulated with varying cement contents. Additionally, Gradations and Atterberg Limit (Plasticity Index) tests were performed to determine the soil classification present in the roadway material. These testing revealed the soils classifications present in the roadbed base course, A-2-4, A-1-a & A-2-6A.

All samples were subject to extensive, laboratory controlled testing and data were recorded and analyzed according to ASTM Standers. Both Wet-Dry and Freeze-Thaw methods were performed per ASTM D559 and ASTM D560 respectively. The mix design requirement was to establish the cement content necessary to have a minimum unconfined compressive strength of 500 psi (3447 kpa) at 7 days. Submitted a final report with the soil-cement mix design, field-laboratory procedure and results for the all three test series.

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Geotechnical Exploration –Firm Experience

2018

Village of Streamwood, IL

Village of Streamwood/Laicon, Inc.

Geotechnical Exploration at various locations in Streamwood, IL

Village was planning to build a Lift Station, Public Works Office Building, Public Works Garage and Fire Stations at various locations in Village of Streamwood.

Our job was to perform geotechnical exploration and describe the soil and groundwater conditions encountered during geotechnical exploration, to review and evaluate these conditions with respect to the proposed project, and to present our recommendations for feasible methods of foundation support, earthwork design and construction.

Exploration of the subsurface soil and groundwater conditions by drilling and sampling sixteen (16) soil borings extending to a depth of 20 feet below the existing ground surface. Laboratory testing of selected samples for index classification and strength purposes, and visual/manual classification of all recovered samples. Geotechnical exploration report providing foundation recommendations. Report contains boring logs, moisture content, unconfined compressive strength, and unit weight and sample recovery information. Development of foundation and earthwork recommendations, and preparation of this report presenting our findings, evaluations and recommendations.

2017

Ogle County, Oregon, IL

Alliance Architecture

Geotechnical Exploration Services for Ogle County Housing Authority

County was planning to rebuild four parking lots at the Ogle County Housing Authority locations in Oregon, IL. Our job was to perform geotechnical exploration and describe the soil and groundwater conditions encountered during geotechnical exploration, to review and evaluate these conditions with respect to the proposed project, and to present our recommendations for feasible methods of subgrade support, pavement design and construction.

Exploration of the subsurface soil and groundwater conditions by drilling and sampling ten (10) borings ranging in depth from 7.5 to 15 feet below the existing ground surface. Laboratory testing of selected samples for index classification and strength purposes, and visual/manual classification of all recovered samples. Geotechnical exploration report providing foundation recommendations. Report contains boring logs, moisture content, unconfined compressive strength, and unit weight and sample recovery information. Development of foundation and earthwork recommendations, and preparation of this report presenting our findings, evaluations and recommendations.

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SCHEDULE OF FEES
2019

SOIL TESTING			
LABORATORY TESTS	ASTM	UNIT	PRICE
Moisture-Density Relationship			
Standard Proctor (Cohesive Soils)	D698	Ea	\$195.00
Modified Proctor (Cohesive Soils)	D1557	Ea	\$220.00
Aggregate Samples	D1883	Add	\$52.00
Material Characterization & Strength			
Sample Extrusion from Shelby Tubes		Ea	\$18.00
Visual Classifications	D2488	Ea	\$10.00
Atterberg Limits	D4318	Ea	\$24.00
Washed Sieve Analysis (includes % finer than No. 200)	C117	Ea	\$44.00
Grain Size Analysis			
Sieve Analysis with Hydrometer	D423	Ea	\$54.00
Unconfined Compressive Strength of Soil		Ea	\$10.00
Moisture Content	D2216	Ea	\$3.00
Unit Weight/Density Determination	D2937	Ea	\$5.00
Unconsolidated, undrained (UU) per point	D2850	Ea	\$75.00
FIELD SERVICES			
Compaction Control	D2922	Hr	\$79.50
Compaction Control - Over time	D2922	Hr	\$119.25
Nuclear Density Equipment	D1556	Day	\$65.00
Sand Cone Equipment	D2937	Day	\$45.00
Engineering Services			
Chief Engineer		Hr	\$88.00
Senior Engineer		Hr	\$86.00
Project Engineer		Hr	\$78.00
Staff Engineer		Hr	\$78.00
Engineering Technician		Hr	\$79.00
Engineering Technician - Overtime		Hr	\$118.50
Drilling			
Mobilization		Each	\$550.00
Drilling		Ft	\$20.00
Drilling-Overtime		Ft	\$30.00

NASHnal Soil Testing, LLC
 SCHEDULE OF FEES
 2019

CONCRETE TESTING			
Field Inspection		Hr	\$80.00
Field Inspection Over time		Hr	\$120.00
Transportation		Mile	\$0.69
Small Equipment Rental		Day	\$45.00
LABORATORY TESTS	ASTM	UNIT	PRICE
Comprehensive Strength			
6" x 12" & 4" x 8" cylinder	C39	Ea	\$15.00
Cured cylinder, not tested		Ea	\$15.00
Cylinder Pickup		Set	\$75.00
Saw cut cylinders		Ea	\$30.00
Cylinder Molds		Ea	\$2.00
Coring (\$350 minimum)			
Field Testing		Hr	\$80.00
Field Testing-OT		Hr	\$120.00
Equipment Rental		Day	\$250.00
Floor Flatness			
Field Testing		Hr	\$85.00
Equipment Rental		Day	\$250.00

NASHnal Soil Testing, LLC
 SCHEDULE OF FEES
 2019

ASPHALTIC/BITUMINOUS CONCRETE TESTING			
Field Inspection		Hr	\$80.00
Field Inspection-OT		Hr	\$120.00
Transportation		Mile	\$0.69
Nuclear Gauge Rental		Day	\$45.00
LABORATORY TESTS	ASTM	UNIT	PRICE
Asphalt Content by Ignition Method	D6307	Ea	\$70.00
Bulk Specific Gravity (AASHTO T166)	D2726	Ea	\$78.00
Maximum Theoretical Specific Gravity		Ea	\$86.00
Core Thickness and Density (minimum 3)		Ea	\$20.00
Sieve Analysis	C136	Ea	\$40.00
FIELD SERVICES			
Coring (\$350.00 minimum)			
Field Sampling		Hr	\$80.00
Field Sampling - OT		Hr	\$120.00
Equipment Rental-Mobile Coring Machine		Day	\$250.00
Bit Wear		Inch	\$10.00



Authorization

We are submitting this proposal in electronic format for acceptance. When it is accepted, we ask that a copy be signed by an authorized representative of the party responsible for payment for these services, and that this signed copy be returned to us as our authorization to proceed.

ACCEPTANCE OF THIS PROPOSAL BY AUTHORIZED SIGNATURE, VERBAL AUTHORIZATION, OR ISSUANCE OF A PURCHASE ORDER, INDICATES THAT YOU UNDERSTAND AND ACCEPT THE TERMS AND CONDITIONS CONTAINED IN THIS PROPOSAL, INCLUDING THE GENERAL CONDITIONS.

ACCEPTED

DATE: April 1, 2019

FIRM City of Geneva, Illinois

AUTHORIZED NAME: Stephanie K. Dawkins
WHEN ACCEPTED PLEASE SIGN *THIS* COPY AND *RETURN* IT TO OUR *OFFICE*. THANK YOU.

(please print)
AUTHORIZED SIGNATURE: *Stephanie K. Dawkins*

RETURN TO:
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Email: contact@nstengr.com
Cell.... 314-587-5391