



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 1

List View

General Information [Contact](#) [Default Values](#) [Discount](#) [Document Information](#) [Clarification Request](#)

Procurement Folder: 1047618

Procurement Type: Central Purchase Order

Vendor ID:

Legal Name: S & S ENGINEERS INC

Alias/DBA:

Total Bid: \$0.00

Response Date:

Response Time:

Responded By User ID:

First Name:

Last Name:

Email:

Phone:

SO Doc Code: CEOI

SO Dept: 0313

SO Doc ID: DEP2200000014

Published Date: 6/22/22

Close Date: 6/27/22

Close Time: 13:30

Status: Closed

Solicitation Description:

Total of Header Attachments: 1

Total of All Attachments: 1



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Solicitation Response

Proc Folder: 1047618
Solicitation Description: EOI - 2022 AML Contract 5 Project North
Proc Type: Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2022-06-27 13:30	SR 0313 ESR06222200000007997	1

VENDOR
000000203864
S & S ENGINEERS INC

Solicitation Number: CEOI 0313 DEP2200000014

Total Bid: 0 **Response Date:** 2022-06-22 **Response Time:** 12:13:56

Comments:

FOR INFORMATION CONTACT THE BUYER

Joseph E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor Signature X	FEIN#	DATE
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All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Professional Svcs - Laurel Point (Travinski) Mine Openings				0.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments:

Extended Description:

Professional Svcs - Laurel Point (Travinski) Mine Openings

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Professional Svcs - Left Fork of Little Sandy Subsidence				0.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments:

Extended Description:

Professional Svcs - Left Fork of Little Sandy Subsidence

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Professional Svcs - McAlpin (Lambert) Landslide				0.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments:

Extended Description:

Professional Svcs - McAlpin (Lambert) Landslide

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Professional Svcs - Smith Run Portal				0.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments:

Extended Description:

Professional Svcs - Smith Run Portal

WV DEPARTMENT OF ADMINISTRATION



**Request For Proposal
For
Engineering Services
For
2022 AML Contract 5 Project North
(DEP2200000014)**

June 2022

Presented by:

**S & S Engineers, Inc.
507 Richland Avenue, Suite 201
Athens, OH 45701
(740) 447-5000**

**501 Eagle Mountain Road
Charleston, WV 25311
(304) 342-7168**



**New River Engineering, Inc.
202 School Drive
Shrewsbury, WV 25015
(304) 595-3290**

**156 Woodrow Avenue, Suite 2A
St. Clairsville, OH 43950
(740) 695-9977**



**Department of Administration
2022 AML Contract 5 Project North**

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Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Expression of Interest
Architect/Engr

Proc Folder: 1047618

Doc Description: EOI - 2022 AML Contract 5 Project North

Reason for Modification:

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2022-05-26	2022-06-22 13:30	CEOI 0313 DEP2200000014	1

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code:

Vendor Name : New River Engineering, Inc

Address : 202 School Drive

Street :

City : Shrewsbury

State : WV

Country : USA

Zip : 25015

Principal Contact : Christopher Burford

Vendor Contact Phone: 304-595-3290

Extension:

FOR INFORMATION CONTACT THE BUYER

Joseph E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

**Vendor
Signature X**

FEIN# 55-0764054

DATE 6/15/2022

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION

The Acquisitions and Contract Administration Section of the Purchasing Division is soliciting an Expression of Interest for the West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands and Reclamation (WVDEP-DLR-AML), from qualified firms to provide architectural/engineering services for planning, realty, design, and construction services per the attached specifications and terms and conditions.

INVOICE TO	SHIP TO
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US

Line	Comm Ln Desc	Qty	Unit Issue
1	Professional Svcs - Laurel Point (Travinski) Mine Openings		

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description:

Professional Svcs - Laurel Point (Travinski) Mine Openings

INVOICE TO	SHIP TO
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US

Line	Comm Ln Desc	Qty	Unit Issue
2	Professional Svcs - Left Fork of Little Sandy Subsidence		

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description:

Professional Svcs - Left Fork of Little Sandy Subsidence

INVOICE TO	SHIP TO
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US

Line	Comm Ln Desc	Qty	Unit Issue
3	Professional Svcs - McAlpin (Lambert) Landslide		

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description:
Professional Svcs - McAlpin (Lambert) Landslide

INVOICE TO	SHIP TO
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US

Line	Comm Ln Desc	Qty	Unit Issue
4	Professional Svcs - Smith Run Portal		

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description:
Professional Svcs - Smith Run Portal

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
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DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Name, Title) New River Engineering, Inc., Christopher Burford, President

(Printed Name and Title) Christopher Burford, President

(Address) 202 School Drive, Shrewsbury WV 25015

(Phone Number) / (Fax Number) 304-595-3290 / 304-595-3341

(email address) cburford@nrei-wv.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

New River Engineering, Inc
(Company)


(Authorized Signature) (Representative Name, Title)

Christopher Burford, President

(Printed Name and Title of Authorized Representative) (Date)

304-595-3290 / 304-595-3341 6/15/22

(Phone Number) (Fax Number)

cburford@nrei-wv.com

(Email Address)

Department of Administration 2022 AML Contract 5 Project North

EXPRESSION OF INTEREST

New River Engineering Inc. (NREI) and S & S Engineers, Inc. (S & S) is pleased to express our interest in providing environmental, engineering, architecture, and surveying services to the West Virginia Department of Administration as needed. S & S Engineers was established in 1980 and NREI was established in 1998 giving both companies a combined 60 years of experience. Our team is a West Virginia based civil / environmental engineering firm and is noted for design excellence and client focus. Our team's integrated design approach, our commitment to design quality, as well as our architectural and construction experience will help to ensure the quality of services that we will provide to the WV Department of Administration. Below, please find additional qualifications that make our team uniquely qualified to assist you with your potential needs.

We have a history of providing high quality design and engineering management services throughout West Virginia, Kentucky, Ohio, and Virginia. This quality has been recognized by the quantity of our repeat clients. We will use our engineering abilities and extensive design experience to aid the WV Department of Administration as any need would arise.

As President of our firm, Mr. Jessie O. Parker, Jr., P.E. will lead projects for the Administration. Mr. Parker has a Bachelor of Science in Civil Engineering from WVU Institute of Technology and a Master of Science in Engineering from Marshall University. Mr. Parker has a vast amount of experience working in the municipal market and has spent his entire career in the utility / infrastructure sector of engineering. Mr. Parker will be assisted by Mr. Matt Shelton, VP, PM, Mr. Christopher Burford, COO, PM, Mr. Elijah Laramie, P.E., Mr. Ashok Sanghavi, P.E., DEE, QEP, Mr. Randy Crace, P.S., Mr. Charles Kurzya P.E., P.S., Mr. Charles Strobe P.E., and the rest of our staff.

We have the training, experience, and multi-discipline support to meet the needs of our clients. Due to our small size, our Engineers and Architects become well rounded and deeply involved with each project. Our Engineers and Architects are able to put their heads together to create an excellent working knowledge of projects, creating high quality, personalized, and professional services. We would like to thank you for this opportunity and if we can be of service to you in this matter, please don't hesitate to contact us at (304) 342-7168.



S & S Engineers, Inc.
EOI for Contract 5 North
Engineering Services

New River Engineering, Inc.



COMPANY PROFILE

S & S ENGINEERS, INC.

S & S Engineers, Inc. (S & S) is an engineering, surveying, and consulting firm founded in 1980 in Charleston, WV and has been providing quality service to our clients for over 41 years. The firm is currently managed by Mr. Jessie O. Parker, Jr., P.E. - President, Mr. Christopher D. Burford - COO and Mr. Matt Shelton - Vice President. S & S has successfully provided an integrated approach to utility projects for our clients. S & S provides professional services to facility owners and operators, architects, and contractors throughout West Virginia, Kentucky, Ohio, Virginia, North Carolina, and many others. S & S services range through all facets of civil engineering design as well as construction administration and project management.

S & S remains committed to the idea of providing high quality, client focused, design solutions that meet budget and schedule requirements. This commitment to quality has been recognized through the long-term client relationships that we have developed. S & S has the qualified professionals available to provide services throughout the duration of a project from the initial planning phases through construction completion and beyond.

S & S utilizes the abilities of designers with many years of experience in their area of expertise, teamed with younger designers on a "best resource for the project approach". We also provide project management services at levels ranging from general oversight to complete project delivery through all phases of design and construction. Our personnel have worked in both the private and public sector and are familiar with many methods of project delivery.

S & S has developed the following philosophy to guide the performance of its services:

- Provide superlative design services to our clients in new construction, improvements, and daily operations.
- Perform work in a timely, accurate and professional manner.
- Present multiple alternatives and solutions whenever possible.
- Work with our clients to control project costs.
- Be a technical sounding board for our clients in all situations.
- Strive to maintain professional competency through continuing education and training.

S & S utilizes a practical application approach to all projects throughout the design process to provide a well-rounded result. This methodology emphasizes the best overall solution, meeting all the client's needs, instead of just the best technical solution. We believe our small size provides a distinct advantage to our clients and affords us the freedom to easily team with the clients to achieve the overall best possible result.



COMPANY PROFILE

NEW RIVER ENGINEERING, INC.

New River Engineering, Inc. (NREI) is an engineering, surveying, and consulting firm that has been providing quality service to the industries for over 20 years. Mutual respect and trust are the cornerstones in the relationships established and maintained with our clients. NREI strives to perform all work in a professional and cost-effective manner, while providing our clients with quality and excellence. NREI primarily serves the coal, oil & gas, timber, and construction industries.

Our staff combines advanced technology with many decades of surveying, mining, and engineering experience and includes two professional engineers, one professional surveyor, four degreed engineers, AutoCAD/engineer technicians and ten full time survey crews.

As a full-service engineering and surveying firm, NREI will provide a whole host of services to our clients including, but not limited to the following:

- Construction Design
- Construction Management
- Construction Surveying
- Geotechnical Engineering & Drilling Management
- Environmental Permitting (WVDEP, NPDES, OAQ and USACOE)
- Underground / Surface Mine Engineering
- Underground / Surface Mining Surveying
- Civil Site Design / Engineering / Planning
- Drainage Design / Engineering / HECRAS
- Aerial Mapping
- Compaction Testing with Nuclear Density Gauge
- Subsurface Utility Locate Surveys with Ground Penetrating Radar & Pipe and Cable Locators
- Ohio DNR Environmental Permitting
- Oil & Gas Surveying
- Boundary & Property / Topographical Surveying
- GPS RTK & Static Surveying
- Reserve Studies



COMPANY PROFILE

GREEN & ASSOCIATES, LLC

Green and Associates, LLC is located in St. Clairsville, Ohio and is a subsidiary of NREI. Green and Associates, LLC has been providing quality surveying services for over 35 years to the following clients: oil and gas industries, coal industry, industrial, public service district, commercial, and residential. Green and Associates, LLC has established itself as one of the areas' most prestigious surveying firms.

Green and Associates, LLC can provide a host of surveying services to our clients but not limited to the following:

- Well Pad Plats / Unit Surveys
- Well Pad & Horizontal Boundary Surveying
- Ohio DNR Permitting
- Well Pad Design & Layout
- Well Pad As-Built Certifications
- Establishment of Water Line for Drilling Projects
- Construction Stake-Outs
- Drone Aerial Flight Surveys & Photos
- Sub-Division Design & Layout
- Property Boundary Surveying
- Topographical Surveys
- RTK GPS Surveying



S & S Engineers, Inc.
EOI for Contracting 5 North
Engineering Services

New River Engineering, Inc.



COMPANY PROFILE

NGE CONSULTING

NGE Consulting is an award-winning engineering firm founded by a sibling team with 25+ years of experience. NGE pairs the personal touch of a family-owned business with highly qualified employees who possess a deep knowledge of their discipline. As a Woman-Owned Small Business, NGE is positioned to help clients meet their governmental contracting goals.

NGE Consulting

- Geotechnical Engineering
- In-House Drilling Crews
- Laboratory Services
- Environmental Compliance
- Remediation
- Waste Management
- Construction Inspection
- Drill Cuttings Managements



S & S Engineers, Inc.
EOI for Contracting 5 North
Engineering Services

New River Engineering, Inc.



SCOPE OF WORK

West Virginia Department of Administration is looking for licensed architectural / engineering firms (A/E) in the state of West Virginia. AML Contract 5 Project North (a group of 4 projects and locations) will be for “full service” A/E design that are to include, but not limited to: Civil, Geological and Hydrological. Locations/Project will include:

1. **Laurel Point (Travinski) Mine Openings, Monongalia County, WV** – Mitigation of open and collapsed portals.
2. **Left Fork of Little Sandy Subsidence, Preston County, WV** – Mitigation of a stream capture in a subsidence feature, and multiple other subsidence features.
3. **McAlpin (Lambert) Landslide, Harrison County, WV** – Stabilization of a dangerous landslide and associated AMD issues on a recently completed AML project
4. **Smith Run Portal, Harrison County, WV** – demolition of a concrete silo and various other abandoned buildings and structures.

The WV Department of Administration is requesting the following services be provided:

- Access or accesses as required
- Geotechnical investigation and analyses
- Landslide Stabilization(s)
- Hydrologic and hydraulic analyses
- Clear and grub affected areas
- Regrade as necessary
- Install drainage channels, underdrains, and/or other controls to safely convey water off-site
- Demolition and removal / disposal of a silo and other structures
- Condition and revegetate all disturbed areas
- Obtain required permits as determined at the Pre-Design Meeting

New River Engineering, Inc. and S & S Engineers, Inc., will provide any other services required by the WV Department of Administration for the implementation of the current project.



PLAN OF APPROACH

New River Engineering Inc. (NREI) and S & S Engineers, Inc. (S & S) are fully aware of the Department of Administration's needs, having served various communities in West Virginia for over 41 years. S & S and NREI believes in offering personal services as well as professional services. The following is a draft approach from project conception through project completion of the services S & S and NREI will provide.

NREI and S & S believe in a team approach for the development of projects. Therefore, our first task will be to meet with Administration officials to review existing data, reports, etc., and to ascertain the need of the specific project. Following data gathering, we will then evaluate alternatives and develop a cost-effective proposal that meets existing and future needs of a specific project. Throughout the process, Administration officials will be kept informed and involved in all important matters.

NREI and S & S will assist the Administration in preparation and submission of any funding application needs. Once the funding has been secured, we will then begin to develop detailed engineering drawings and specifications for the project. As information is gathered, it will be reviewed with the Administration to allow comment and coordination as the project progresses. The project engineer will be involved during all phases of developing a project, obtaining funding, design, and construction to assure coordination with personnel, and regulatory and funding agencies.

PRELIMINARY ENGINEERING REPORT (IF NEEDED)

Our next task will be the preparation of a Preliminary Engineering Report. Specifically, the report will be organized in accordance with regulatory and funding agency requirements as follows:

1. Introduction and Overview
2. Planning Area and Future Needs
3. Evaluation of the Existing System
4. Proposed Improvements/Upgrades
5. Alternate Solutions
6. Cost Estimates – Capital and O & M
7. Environmental Issues
8. Public Participation
9. Final Plan Selection
10. Implementation

Prior to publication of the final report, all information will be shared and reviewed with the Department of Administration officials to assure that concerns are addressed.



DESIGN PHASE

Initially NREI/S&S will request any additional documentation relative to the project that has not already been provided. This may include other viable sites already being considered, access route locations, topographic surveys, etc. Upon review of this information, NREI/S&S will begin meeting with your designated representatives to review and discuss preferred site features and orientations. Once the site and orientation are confirmed NREI/S & S will begin preparing the design drawings and specifications.

Upon completion of the preliminary design drawings NREI/S & S will schedule a second meeting to present the design and preliminary cost estimate to the designated officials for review and comments. NREI/S & S will then revise the design drawings and cost estimate to reflect any comments from Administration officials.

CONSTRUCTION DOCUMENTS PHASE

Once the final design is complete NREI/S & S will begin procuring the necessary permits and preparing the bidding and construction documents, details, and specifications for the project. NREI/S & S will provide a 90% submission to the owner for review and comment to allow minor modifications prior to final binding and printing.

BIDDING PHASE

During this phase NREI/S & S will assist by participating in the pre-bid meeting, answer addendum questions and reviewing contractor bids. NREI/S & S will also assist in the preparation of the construction agreement as required.

CONSTRUCTION PHASE SERVICES

During construction our services include review of shop drawings and submittals, conducting regular progress site meetings, reviewing and preparing change orders and payment applications, conducting substantial and final inspections and reviewing close out documents.

NREI/S & S will also provide a Resident Construction Inspector for the duration of the project construction.

SCHEDULE

Upon selection NREI/S & S will begin working on the project immediately.



PROJECT EXPERIENCE

1. **AML Carbondale (Hill) Portals Phase II – Recently Awarded (2022)**
 - **Description:** Engineering, Environmental Permitting, Design & Construction Management, Inspection, and Technical Services for a developing project to raise salmon utilizing the water stored in the abandoned Maple Meadow Mine.
2. **Maple Eagle Complex, Fayette / Kanawha County, WV**
 - **Description:** Engineering, Environmental Permitting, Design & Construction Management for a Surface Mine and Deep Mine Facility. Activities include: Environmental Permitting, Pond Design & Construction, Primary Haulroad / IUAR Design & Construction, Preparation of Mine Plans, Prospecting / Drilling Operations, Valley Fill Designs & Certifications, Excess Spoil Disposal Areas, Surface Mine Surveying Activities, Sediment Control Structures, Support for Excavation of Overburden & Removal of Coal, Underground Deep Mine Surveying, Preparation of Underground Mine Mapping, WVOMHS&T & MSHA Plans (including Ventilation, Ground Control, & Roof Control Plans), Underground Mine Seal Plans, SWORA Evaluations, Phase Maps, and Site Supervisor / Project Manager.
 - **Funding Source:** Maple Coal Co., Western Coal, Walter Resources, ERP Fuels, and currently Blackhawk Mining
 - **Project Cost:** Approximately \$8,500,000 to Current
 - **Project Status:** Started December 2005 and continues currently
3. **American Mining Group, Fayette County, WV**
 - **Description:** Engineering, Environmental Permitting, Design & Construction Management for a Surface Mine Facility. Activities include Environmental Permitting, Pond Design & Construction, Primary Haulroad / IUAR Design & Construction, Preparation of Mine Plans, Prospecting / Drilling Operations, Excess Spoil Disposal Areas, Surface Mine Surveying Activities, Sediment Control Structures, Support for Excavation of Overburden & Removal of Coal, WVOMHS&T & MSHA Plans (including Ground Control, Plans), SWORA Evaluations, Phase Maps, and Site Supervisor / Project Manager.
 - **Funding Source:** American Mining Group
 - **Project Cost:** Approximately \$850,000 to Current
 - **Project Status:** Started Circa 2018 and continues currently
4. **Marshall County Coal Preparation Plant Geotechnical Investigation (2022)**
 - **Description:** Oversaw and performed a geotechnical investigation for an expansion to the Marshall County coal preparation plant. Provided structural designers geotechnical parameters for shallow and deep foundations, included drilled caissons and driven piles.



5. **Cyprus Kanawha Corp, Fayette County, WV**
 - **Description:** Completed USACOE permitting requirements to expand a coal barge loading facility located on the Kanawha River. The expansion consisted of the construction of additional steel pile mooring cells, additional barge storage and increased loading speed of barges.
 - **Funding Source:** Cyprus Kanawha Corp
 - **Project Cost:** \$1,000,000
 - **Project Status:** Completed 1990 on Schedule
6. **United Coal Company, LLC (including Pocahontas Coal Company, LLC & Carter Road Coal Company), Raleigh, Wyoming, Randolph, & Upshur County, WV**
 - **Description:** Coal Mining/Environmental Planning, Permitting, and Coordination including; engineer site review and reconnaissance; mine layout and design; drainage design; haulage layout and design; spoil balance and reclamation design; stream delineation and USACE permitting and approvals; WVDEP permit submittals and approvals including Article 3, Article 11, and Storm Water Construction; on-site construction stakeout; surveying, both surface and underground; field management and on-site project coordination; as-built certifications; coal slurry impoundment and coarse refuse disposal management, coordination, surveying, and design; and daily contact and coordination between the company, field personnel, and office personnel to ensure the proper running of daily mining and environmental activities and needs for various on-going mining and environmental projects.
 - **Funding Source:** Private Business Coal Extraction & Sales
 - **Project Cost:** \$13,400,000 average for completed and on-going services
 - **Project Status:** Began Circa August 2006 and continues currently
7. **TC Energy, Various Locations, WV, OH, VA, PA, KY, MI, NY, NJ & Etc.**
 - **Description:** Engineering, Surveying and Drafting for Multiple Projects Across the Eastern United States. Provide Surveying, Engineering and Drafting Support for the Long Wall Program, HCA Wire-Line Program, HCA-Dig Program, HCA-Hydro Test Programs, and Right-Of-Way Program. Provide Engineering & Geotechnical for Hazardous Steep Slope Winch Plans for Construction Operations.
 - **Funding Source:** Private Business / TC Energy
 - **Project Cost:** Approximately \$3,500,000 and on-going
 - **Project Status:** Started Circa 2017 and continues currently



8. **Nitro Regional Wastewater Utility, Kanawha County, WV**
 - **Description:** Planning including preliminary engineer site and system review and assessment, design, and construction management of a sewer line extension and construction of a new Belt Filter Press Building and Belt Filter Press.
 - **Funding Source:** WVDEP-CWSRF
 - **Project Cost:** \$8,226,840, completed project approximately \$100,000 under budget and used savings to upgrade the wastewater treatment plant headworks
 - **Project Status:** Completed 2017
9. **City of Sistersville, Tyler County, WV**
 - **Description:** Planning including preliminary engineer site and system review and assessment, design, and construction management of a new wastewater collection system in the Hanford City area with pump station and related work.
 - **Funding Source:** WVDEP-CWSRF
 - **Project Cost:** \$1,100,000, completed project approximately \$100,000 under budget and used savings to replace approximately 800 LF of existing sewer line
 - **Project Status:** Completed 2014
10. **Kanawha PSD, Kanawha County, WV**
 - **Description:** Planning including preliminary engineer site and system review and assessment, design, and construction management of 6 miles of gravity sewer & force mains, two (2) pump stations and three (3) grinder pump stations for Winifrede Hollow.
 - **Funding Source:** WVDEP-CWSRF
 - **Project Cost:** \$5,370,000, completed project approximately \$450,000 under budget and used savings to purchase equipment, replaced diffusers in aeration basins at the WWTP, constructed a new laboratory
11. **Patriot Coal Corporation, Logan County, WV**
 - **Description:** Planning and design of a water line extension project which also included a water booster station and a 27,000-gallon water storage tank.
 - **Funding Source:** Patriot Coal Corporation
 - **Project Cost:** \$1,200,00
 - **Project Status:** Completed 2010



12. Pocahontas Coal Company, Raleigh County, WV

- **Description:** Planning and design of a water and sewer line extension project which also included wastewater pump station.
- **Funding Source:** Pocahontas Coal Company
- **Project Cost:** \$400,000
- **Project Status:** Completed 2010

13. WVDOC Denmar Correctional Center, Pocahontas County, WV

- **Description:** Planning, design, and construction management of the replacement of two (2) water storage tanks with one 300,000-gallon water storage tank.
- **Funding Source:** WVDOC
- **Project Cost:** \$600,000
- **Project Status:** Completed March 2015

14. WVDNR Bluestone State Park, Summers County, WV

- **Description:** Planning, design, and construction management of the replacement of water line which also included the two (2) pressure reducing stations.
- **Funding Source:** WVDNR
- **Project Cost:** \$450,000
- **Project Status:** Completed 2011

15. Coonskin Park Flood Repairs, Kanawha County, WV

- **Description:** Planning, design, and construction management of 160 LF of H-Pile wall, a 40 LF H-Pile wall, Replacement of three 18" culverts, Paving of approx. 2,800 LF of Elk River Trail, and Replacement of 105 LF of 36" HDPE storm pipe. Project cost of approx. \$1.85 million.

16. Big Bend / Coonskin, Kanawha County, WV

- **Description:** Planning and design for an embankment repair to address failed slope along the trail on the Elk River. Planning and design for an embankment repair to address failed slope that is adjacent to the Coal River in Tornado, WV



AVAILABLE RESOURCES

A. Current Staffing

- 5 Registered Professional Engineers (Including Mining, Civil, Structural, and Geotechnical)
- 2 Registered Surveyors
- 4 Senior Engineers
- 4 Engineers in Training
- 1 GIS Analyst
- 2 Surveyors in Training
- Multiple AutoCAD Operators
- 11 Survey Crews
- Multiple Support Staff Members

B. Surveying & Mapping

With over ten (10) survey crews and multiple support team members, S & S and NREI have the capability and availability to handle the needs and desires of our clients.

C. Drilling and Geotechnical

With our in-house Geotechnical Engineer teamed with the crews of NGE Consulting, we have the necessary experience and capabilities to handle the needs and desires of our clients.



PROJECT MANAGEMENT

With over 100 years of combined professional experience, the project team will be made up of the following personnel, along with the rest of S & S Engineers and New River Engineering:

Jessie O. Parker, Jr., P.E. Email: jop@s-s-eng.com	President (S&S) / Principal Engineer
Christopher D. Burford Email: cburford@nrei-wv.com	Chief Operating Officer (S&S)/ President (NREI)
D. Matt Shelton Email: dms@s-s-eng.com	Vice President (S&S) / Project Manager
Elijah T. Laramée, P.E. Email: etl@s-s-eng.com	Senior Engineer
Ashok M. Sanghavi, P.E., DEE, QEP Email: a.sanghavi@s-s-eng.com	Senior Engineer
Charles "Chuck" B. Kurzyna, P.E., P.S. Email: ckurzyna@nrei-wv.com	Vice President (NREI) / Sr. Engineer/ Professional Surveyor
Charles "Charlie" T. Strope, P.E. Email: cstrope@nrei-wv.com	Principal Engineer (NREI)
Randy B. Crace, P.S. Email: r.crace@s-s-eng.com	Senior Surveyor
Benjamin Treadway Email: btreadway@nrei-wv.com	Project Manager
Vincent Scriptunas Email: vscriptunas@nrei-wv.com	Project Manager
Michael Proctor Email: mproctor@ssnrei.com	Project Manager
John E. Nottingham, P.E., P.S. Email: jnottingham@ngeconsulting.com	President NGE
Gene Brown, P.E. Email: gbrown@ngeconsulting.com	Senior Engineer





S & S Engineers, Inc.
EOI for Contracting 5 North
Engineering Services

New River Engineering, Inc.



RESUMES OF KEY PERSONNEL



Jessie O. Parker, Jr., P.E.
President / Senior Engineer
S & S Engineers, Inc.

Mr. Parker began his career at S & S in 2003 working on a variety of environmental projects throughout West Virginia, Kentucky, Ohio, and Virginia. Mr. Parker has served in the capacity of Engineer, Project Manager, and Principal in Charge for a variety of projects at S & S. This experience includes environmental, water supply, wastewater, storm water and drainage projects. Mr. Parker's responsibilities include planning, design, and construction administration.

Mr. Parker also has experience in grading plans, construction management, payment request approvals, quantity & cost estimates, and has worked with City, City & PSD personnel, regulatory and funding agencies, as well as contractors.

Mr. Parker has proven to move projects forward in a professional, cost-effective, and timely manner. Has extensive knowledge of the state and federal water supply, and wastewater laws and regulations and is very familiar with federal and state grant and loan programs.

EDUCATION

Bachelor of Science

Civil Engineering
West Virginia University Institute of Technology
December 2002

Master of Science

Engineering
Marshall University
May 2006

CERTIFICATIONS

Environmental Site Assessment
Commercial Real Estate
December 2016

Professional Engineer (WV)
Professional Engineer (OH)
Professional Engineer (KY)
Professional Engineer (VA)
Professional Engineer (MD)
Professional Engineer (NC)
Professional Engineer (SC)
Professional Engineer (PA)
Professional Engineer (TN)

PROFESSIONAL AFFILIATIONS

Water Environment Federation
American Water Works Association
American Society of Civil Engineers
Society of American Military Engineers
West Virginia Rural Water Association
Contractors Association of West Virginia



S & S Engineers, Inc.
EOI for Contracting 5 North
Engineering Services

New River Engineering, Inc.





Christopher D. Burford
COO / Project Manager: S & S Engineers, Inc.
President: New River Engineering, Inc.
Green and Associates, LLC
New River Safety, LLC
Ellison Ridge Mining, LLC

Mr. Burford has been with NREI for over fifteen years. As the President and Project Manager for New River Engineering, Inc., he oversees Surface and Underground Mining Permit Applications, is the Manager of Surveying Crews, manages State and Federal Safety Plans and Permits, oversees Construction Oversight & Construction Management, and Mine Planning.

Green and Associates, LLC, St. Clairsville OH – manager and supervisor of survey crews and office personnel, business development, and coordination with clients on various projects.

New River Safety, LLC, – manager and Supervisor of safety instructors, electrical inspectors, and office personnel, business development, and coordination with clients and government entities.

Ellison Ridge Mining, LLC – management and oversight of various sub-contractors over mining, reclamation, and civil site construction projects, business development, and coordination with clients and government entities.

EDUCATION

Associate of Science

Civil Engineering Technology
West Virginia University Institute of Technology
May 2004

CERTIFICATIONS

Certified Underground Coal Miner
Certified Surface Coal Miner
MSHA Certified Limited Instructor
MSHA Certified Gravimetric Dust Sampling
MSHA Certified Gravimetric Dust Calibration & Maintenance
Heartsaver First Aid, CPR & AED Certified
Safe Land USA PEC Safety
MSHA – Methane / Oxygen Deficiency Qualified
APNGA Portable Nuclear Gauge Safety &
USDOT Hazmat Certified
(# [REDACTED])
APNGA Certificate of Achievement
Radiation Safety Officer Class
(# [REDACTED])

PROFESSIONAL AFFILIATIONS

Contractors Association of West Virginia
West Virginia Rural Waters Association
West Virginia Coal Association
Friends of Coal Association



S & S Engineers, Inc.
EOI for Contracting 5 North
Engineering Services

New River Engineering, Inc.





D. Matt Shelton
Vice President / Project Manager
S & S Engineers, Inc.
New River Engineering, Inc.
Green and Associates, LLC

Mr. Shelton began his career at S & S in 2004 working in civil engineering fields such as site development, water supply, wastewater, storm water and drainage. Also has experience in surveying, construction management, record keeping, quantity and payment reviews, inspection, and site grading. Having worked with general contractors, subcontractors, community representatives and residents, he has developed solid techniques to move the projects in a professional, cost-effective, and timely manner.

Experienced in site grading, surveying, quantity surveys, building layout, water & sewer system design and construction inspection on civil engineering projects.

Experience as Engineering Technician including design of water line extensions, water booster stations, water storage tanks, wastewater pump stations, sewer line extensions, manholes, drainage calculations, and preparation of quantity and cost estimates.

Experience as Survey Technician / Instrument man includes topographic surveys, construction stakeout for water & sewer systems and highways, building layout, cut sheets for sewer systems, GPS surveying for field control work, etc.

EDUCATION

Bachelor of Science

Civil Engineering Technology
West Virginia University Institute of Technology
May 2005

CERTIFICATIONS

Environmental Site Assessment
Commercial Real Estate
December 2016

PROFESSIONAL AFFILIATIONS

Water Environment Federation
Contractors Association of West Virginia



S & S Engineers, Inc.
EOI for Contracting 5 North
Engineering Services

New River Engineering, Inc.





Elijah Laramee, P.E.
Professional Engineer
S & S Engineers, Inc.

Mr. Laramee has more than seventeen years of civil/structural design and management experience, including deep foundations, shallow foundations, concrete and steel structures, building enclosures, rigging, drainage, underground utilities, etc. Mr. Laramee is also proficient in several analysis & design, laser scan and 3D design software packages.

EXPERIENCE

PROFESSIONAL ENGINEER

Responsible for analysis and design of various types of structures and materials for compliance with building codes and design standards. Design work includes large steel structures, as well as retrofit of steel and concrete structures and foundations.

LEAD ENGINEER

Perform design and analysis responsibilities of professional engineer with additional duties of coordinating the civil structural design effort with clients and other design disciplines. Duties include work planning, scheduling, cost control, quality management, design reviews, and construction packaging.

DEPARTMENT MANAGER

Responsible for the overall execution and quality of the Civil Structural Department in U.S and India offices. Duties include resource planning, scheduling, technical oversight, development of people, procedural development, auditing, and determination of needs for tools and skills.

FIELD ENGINEER

Provide inspection and verification of design in construction and provide solutions to issues encountered in the field. Review of submissions and creation of punch list items.

EDUCATION

Bachelor of Science

Civil Engineering
West Virginia University Institute of
Technology
May 2003

CERTIFICATIONS

Professional Engineer (WV) Professional
Engineer (IA) Professional Engineer (KY)
Professional Engineer (MO) Professional
Engineer (NC) Professional Engineer (OH)
Professional Engineer (PA) Professional
Engineer (TX) Professional Engineer (VA)
Professional Engineer (SC) Professional
Engineer (GA) Professional Engineer (MI)

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers

American Institute of Steel Construction
AISC



S & S Engineers, Inc.
EOI for Contracting 5 North
Engineering Services

New River Engineering, Inc.





Ashok M. Sanghavi, P.E., DEE, QEP
Senior Engineer / Quality Control Officer
S & S Engineers, Inc.

Over forty-six years of professional experience in civil engineering fields such as environmental, water supply, wastewater, solid wastes management, drainage, and mining. He has provided planning, design, construction management and technical expert testimony for environmental and general civil engineering projects. He has prepared Phase I environmental site assessments and carried out subsequent Phase II and Phase III remediation work. He has prepared environmental impact statements for state and federal highway projects.

Having worked for the private industry as well as state government, he thoroughly understands both sides. He has extensive knowledge of the state and federal water supply, and wastewater laws and regulations and is also very familiar with federal and state grant and loan programs.

West Virginia State Health Department

- 1) Acting Chief, Wastewater Division
- 2) District Engineer
- 3) Water Supply Engineer

EDUCATION

Master of Science

Civil Engineering
West Virginia University
May 1970

Partial Course work for Ph.D.

CERTIFICATIONS

Professional Engineer (WV)

Diplomate - American Academy of
Environmental Engineers

Qualified Environmental Professional, IPEP

PROFESSIONAL AFFILIATIONS

Water Environment Federation
American Water Works Association
American Society of Civil Engineers
West Virginia Rural Water Association
Contractors Association of West Virginia

AWARDS

Arthur Sidney Bedell Award,
Water Environment Federation, 1993



S & S Engineers, Inc.
EOI for Contracting 5 North
Engineering Services

New River Engineering, Inc.





Charles "Chuck" Kurzyna, P.E., P.S.
Senior Engineer / Senior Surveyor
New River Engineering, Inc.
Green and Associates, LLC
New River Safety, LLC
Ellison Ridge Mining, LLC

Former President and Principal Owner of New River Engineering Inc., established in 1998. New River Engineering has been performing surveying and engineering for the coalmining and construction industries.

Mr. Kurzyna has over 30 years of engineering and management experience in the mining industry and consulting business. He specializes in surface and underground mine design, planning, and surveying; environmental and safety permitting; project and construction management.

Project Manager for a consulting engineering firm, responsible for job estimates and bidding, supervise office staff in engineering related projects including surface mine surveying, reclamation and permitting, reserve studies, etc.

Chief Engineer for a small mining and construction company, responsible for mine planning, production tracking, construction job bidding, construction engineering, etc.

Chief Engineer, Senior Engineer for the Lady Dunn Surface Mine & Preparation Plant; coal reserve evaluations; project engineering for mine related facilities; environmental permits for large surface and deep mining operation; etc.

EDUCATION

Bachelor of Science

Mine Engineering Technology
West Virginia Institute of Technology
May 1979

Associate of Science

West Virginia Institute of Technology
May 1977

CERTIFICATIONS

Professional Engineer (WV)
Professional Engineer (OH)
Professional Engineer (PA)
Professional Engineer (VA)
Professional Engineer (KY)
Professional Engineer (GA)
Professional Surveyor (WV)
Underground Mine Foreman
Surface Mine Foreman

PROFESSIONAL AFFILIATIONS

Contractors Association of West Virginia
West Virginia Coal Association
Friends of Coal Association
Society of Mining Engineers



S & S Engineers, Inc.
EOI for Contracting 5 North
Engineering Services

New River Engineering, Inc.





Charles T. Strobe, P.E.
Senior Engineer
New River Engineering, Inc.

Responsible for mine planning and permitting, monthly production reports for clients and hazardous slope plans for oil and gas line construction.

Geotechnical Engineer for TRC Engineers, Inc. – Charleston, WV, Project Engineer on various construction projects including US Route 35 expansion at Buffalo, WV, Jefferson Road Improvements in South Charleston, WV and the Hobet Mine Access Road in Madison, WV. Engineering Analysis performed including stability of road fills and road cuts, settlement analysis, retaining wall design, and performed boring inspection in the field.

Highway Engineer Associate (West Virginia Division of Highways, Charleston, WV) Responsible for performing construction inspections and preparing daily progress reports to be utilized in determining state payments to contractors.

Staff Engineer at NREI (2010-2014) Responsible for updating mine maps, monthly production reports and supplying clients with updated mine maps, escape-way maps, ventilation maps etc. Engineering analysis performed on coal pillar stability.

EDUCATION

Master of Business Administration

West Virginia University
June 2010

Bachelor of Science

Civil Engineering
West Virginia University
May 2009

Bachelor of Science

Mining Engineering
West Virginia University
May 2009

CERTIFICATIONS

Professional Engineer (WV)
Professional Engineer (OH)
Professional Engineer (KY)
Professional Engineer (MI)
Professional Engineer (IL)
Professional Engineer (PA)
Professional Engineer (MD)

APNGA Portable Nuclear Gauge
Safety & USDOT Hazmat Certified
(# [REDACTED])

APNGA Certificate of Achievement
Radiation Safety Officer
Class (# [REDACTED])

PROFESSIONAL AFFILIATIONS

Contractors Association of West Virginia
West Virginia Coal Association
Friends of Coal Association



S & S Engineers, Inc.
EOI for Contracting 5 North
Engineering Services

New River Engineering, Inc.





Randy B. Crace, P.S.
Senior Surveyor
S & S Engineers, Inc.

Mr. Crace began his career at S & S in 1983 working on a variety of surveying and engineering projects. Areas of concentration in boundary surveys, mapping, topography, subdivisions, annexations, right of ways, subdivision development, construction stakeout, aerial mapping controls, GPS-RTK survey control networks, oil and gas well locations, surface and underground mining permits, construction stakeout, hydrology, erosion and sediment control plans, storm water retention systems, site grading plans, parking lot layout, WVDOH driveway permits, Cad software programs, Geographic Information Systems, Phase I - ASTM environmental site assessment and expert witness testimony in the surveying field.

U.S. Army - SP4
Honorable Discharge - 1974

EDUCATION

Bachelor of Science

Industrial Technology
West Virginia State College, Institute
December 1989

Master of Science Environmental Studies
MUCGS, Institute of WV Partial Course Work

CERTIFICATIONS

Environmental Site Assessment
Commercial Real Estate Certification
ASTM E-1527 & E-1528
October 2001

ASTM E 1527-05 Phase I and USEPA AAI
October 2006

ACSM Surveying Instrumentation and
Coordinate Computation Certificate, 1978

Center College, Charleston, WV
Technical Degree, Drafting – 1970

Professional Surveyor (WV)
Professional Surveyor (KY)
Professional Surveyor (OH)

PROFESSIONAL AFFILIATIONS

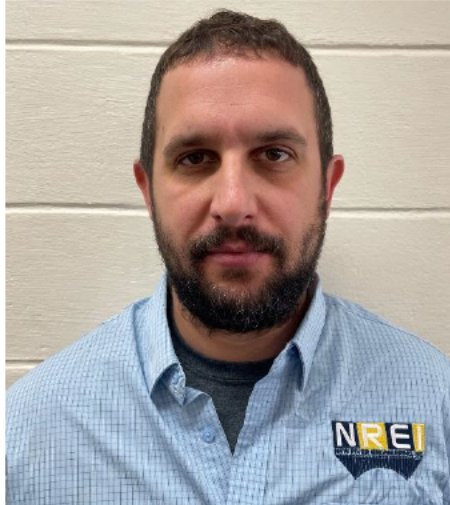
West Virginia Association of Land Surveyors
American Congress on Surveying & Mapping
National Society of Professional Surveyors
American Institute of Architects, WV



S & S Engineers, Inc.
EOI for Contracting 5 North
Engineering Services

New River Engineering, Inc.





Ben Treadway
Project Manager
New River Engineering, Inc.
S & S Engineers, Inc.
Green and Associates, LLC

Mr. Treadway is a 2005 graduate of WVU Tech with a B.S. in Civil Engineering Technology. He has over 10 years of experience in the engineering and consulting fields. Ben has experience in surveying, soil testing, and permitting and is proficient utilizing AutoCAD and SurvCadd for engineering design.

New River Engineering, Inc.—Shrewsbury, WV, Surface and Underground Mining Permit Applications, Surveying – Surface and Underground, 3D modeling, Slope Stability, USACE Permitting, Geologic Modeling, and Storm Water Construction

West Virginia Division of Homeland Security and Emergency Management – Big Chimney, WV, Performed flood elevation surveys for flooded homes in West Virginia. Used GPS to set benchmarks, determined base flood elevations, determined flood zones and stream data, filled out targeting sheets for homes with appropriate data.

West Virginia Department of Highways – Lewisburg, WV, checked steel reinforcing placed within bridge piers for proper installation, filled out daily reports, calculated area of steel placed day-to-day, checked for proper bolt torque and installation, air and slump tested concrete poured in piers.

Esmer & Associates Inc. – Boomer, WV, performed lab tests on soil, used planimetry to determine slurry pond life, fill areas, cut areas, etc., used computer to calculate lab results, aided on coal impoundments to do various monitoring tests, collected data for coal impoundment monitoring.

EDUCATION

Bachelor of Science

Civil Engineering Technology
West Virginia University Tech Fall 2005

Associate of Science

Civil Engineering Technology
West Virginia University Tech Spring 2004

CERTIFICATIONS

Dam Inspector
Underground Coal Miner
Surface Coal Miner
MSHA Certified Limited Instructor
MSHA Certified Gravimetric Dust Sampling
MSHA Certified Gravimetric Dust Calibration & Maintenance
Heartsaver First Aid, CPR & AED Certified
Safe Land USA PEC Safety

PROFESSIONAL AFFILIATIONS

Contractors Association of West Virginia
West Virginia Coal Association
Friends of Coal Association



S & S Engineers, Inc.
EOI for Contracting 5 North
Engineering Services

New River Engineering, Inc.





Vincent W. Scriptunas II
Project Manager
New River Engineering, Inc.
S & S Engineers, Inc.
Green and Associates, LLC

Mr. Scriptunas is a 1981 graduate of West Virginia University with a B.S. in Mining Engineering with over 30 years of experience in the mining and consulting fields. Vince specializes in surface and underground mine planning and design, reclamation, and environmental permitting.

New River Engineering, Inc. - Shrewsbury, WV, prepare surface mine permits as required by West Virginia state regulations.

Prepare surface mine NPDES permits as required by West Virginia state regulations. Provide technical assistance to clients for facilitation and implementation of more effective environmental reclamation and drainage control systems.

Horizon Natural Resources-Ashland, KY, Supervised reclamation, and mining activities. Evaluated reclamation liability of active and abandoned permits. Responsible for ensuring environmental compliance and permitting. Managed the final active mining of the Sycamore South Mountaintop Mine with no lost time accidents

Pittston Coal Company-Lebanon, VA, Prepared mine plan and schedules for mountain top/contour removal operation with annual production of over one million tons. Planned, organized, scheduled, and monitored construction and special projects. Served as a liaison between operations and governmental agencies. Responsible for ensuring environmental compliance permitting.

Cyprus Kanawha Corporation-Powellton, WV, developed a mine plan for a surface/highwall mining activities for a mountain top removal operation with annual production of 1.5 million tons. Prepared operations elemental budget for a truck/shovel mining operation. Developed and maintained comprehensive production analysis including yardage moved, blasting data, haulage, productivity, and availability. Reviewed West Virginia property tax appraisal resulting in a reduced tax expense.

Hawks Nest Mining Company- Powellton, WV, planning and operational engineering support for underground mines. Generated ventilation and roof control plans for underground mine as required by federal and state regulations.

EDUCATION

Bachelor of Science

Mining Engineering
West Virginia University 1981

CERTIFICATIONS

Surface Mine Foreman
Underground Coal Miner

PROFESSIONAL AFFILIATIONS

Contractors Association of West Virginia
West Virginia Coal Association
Friends of Coal Association



S & S Engineers, Inc.
EOI for Contracting 5 North
Engineering Services

New River Engineering, Inc.





Michael Proctor
Senior Engineer / Project Manager
New River Engineering, Inc.
S & S Engineers, Inc.

Mr. Proctor is a 2005 graduate of WVU Tech with a B.S. in Civil Engineering Technology. He has over 15 years of experience in the mining and engineering consulting fields. Michael has experience in surveying, soil testing, and permitting and is proficient utilizing AutoCAD and SurvCadd for engineering design.

New River Engineering, Inc.—Shrewsbury, WV, Surface and Underground Mining Permit Applications, 3D modeling, USACE Permitting, and Geologic Modeling

SLS Land & Energy Development—Beckley, WV, Project Manager, Responsible for performing site development and layout, foundation design, hydraulic analysis and road design. Regulatory permitting, storm water and right-of-way permits.

Covey Engineering – Beckley, WV, Project Engineer, Responsible for performing site development and layout, foundation design, hydraulic analysis and road design, performed analysis on structures consisting of steel, concrete, and pre-stressed concrete.

Point Lick Energy, LLC – Charleston, WV, Mine Planner/Project Engineer – Lead Surface Mine Planner, Mine /Geologic modeling, Environmental Compliance, Surveying

Walter Energy-Elk Ridge, WV, Planner/Project Engineer – Managed Permitting Issues with Consultants, Lead Surface Mine Planner, Mine Modeling/Geologic Modeling, Project Manager on Capital Projects, Environmental Compliance

Republic Energy – Charleston, WV, Chief Engineer, In charge of all Surface Mine Planning, Mine Modeling/Geologic Modeling, Project Manager on all Capital Projects, Permitting, Environmental Compliance, Surveying

EDUCATION

Bachelor of Science

Civil Engineering Technology
West Virginia University Tech Fall 2005

Associate of Science

Civil Engineering Technology
West Virginia University Tech Spring 2004

CERTIFICATIONS

Surface Coal Miner
Environmental Assurance Compliance
Commercial Insurance License
Certified Nuclear Density Compaction Testing
Radiation Safety Officer
West Virginia Certified Concrete Inspector

PROFESSIONAL AFFILIATIONS

West Virginia Coal Association
Friends of Coal Association
Society of Mining Engineers



S & S Engineers, Inc.

New River Engineering, Inc.





Mr. Brown has served as Senior Engineer on numerous projects for clients in private industry as well as for state and federal agencies. He has performed a variety of roles in various projects from office management activities to coordination of field activities. Duties on these projects have included foundation investigation report production, foundation and retaining wall design, fill embankment and cut slope design, slope stability analysis, dam analysis, AutoCAD drafting, supervision of subsurface drilling programs, field activity coordination, environmental site assessments, operation and maintenance of groundwater extraction and remediation systems, structural inspections, GPS and conventional surveys, laboratory data computation and processing, performance of fieldwork, client relations, and supervision of technical and professional staff.

Fields of Competence

- Subsurface Investigations
- Slope Stability Analysis
- Bridge Foundation Analysis
- Retaining Wall Design
- Landslide Analysis & Remedial Design
- Site Development Earthwork Design
- Foundation Investigations
- Seismic Site Class evaluation, per International Building Code (IBC) 2000 edition.
- Construction Monitoring
- Personnel Management
- Project Management (schedule and budget)
- Project Estimating

Education

- BS, Civil Engineering Technology, Bluefield State College, 2000
- BS, Architectural Engineering Technology, Bluefield State College, 2000

Registration/Certifications

- Registered Professional Engineer, West Virginia
- Licensed Remediation Specialist (LRS), West Virginia
- OSHA 1910.120 40-hour HAZWOPER Training, 2005
- OSHA 10-hour Construction Safety and Health, 2013

Employment History

- 2022 – Present
West Virginia Office Manager
NGE, LLC
- 2018 – Present
Geotechnical Services Manager
NGE, LLC
- 2008 – 2018
Project Engineer
NGE, LLC
- 2006 – 2008
Staff Engineer
NGE, LLC
- 2001 – 2006
Staff Engineer, Terradon Corporation
- 2000 – 2001
Survey Technician, John E. Chance & Associates, Inc
- 1999
Engineer Intern, Burgess & Niple, Ltd.



Mr. Nottingham currently serves President & Principal Engineer for NGE. In this capacity, he has served as lead Geotechnical Engineer on a variety of government and commercial design and construction projects. His responsibilities on these projects include direction and coordination of all geotechnical engineering activities. Duties on these projects have included foundation investigation report production, foundation and retaining wall design, fill embankment and cut slope design, slope stability analysis, pavement design, design of drainage systems, supervision of subsurface drilling programs, field activity coordination, laboratory data computation and processing, performance of field work, client relations, and supervision of technical and professional staff.

Fields of Competence

- Highway & Airport Geotechnical Design
- Bridge & Building Foundation Analysis
- Subsurface Investigations
- Site Development Earthwork Design
- Slope Stability Analysis
- Landslide Analysis & Remedial Design
- Retaining Wall Design
- Reinforced Soil Slope Design
- Mine Subsidence Investigations
- Forensic & Insurance Investigations
- Construction Monitoring
- Personnel Management
- Project Management (schedule and budget)
- Project Estimating

Education

- B.S., Civil Engineering, West Virginia University - 1987
- M.S., Civil Engineering, West Virginia University - 1995

Registration/Certifications

- Registered Professional Engineer in West Virginia, Pennsylvania, Maryland, Virginia, Kentucky, and Ohio.
- Registered Professional Surveyor in West Virginia.

Employment History

- 2016 - Present
President, Principal Engineer NGE, LLC
- 2002 - 2016
Branch Manager, Vice President, Principal Engineer NGE, LLC
- 1997 - 2002
Vice President & Geotechnical Services Manager Triad Engineering, Inc.
- 1996 - 1997
Senior Engineer - Triad Engineering, Inc.
- 1993 - 1996
Project Engineer - Triad Engineering, Inc.
- 1988 - 1993
Staff Engineer - Triad Engineering, Inc.



Mr. Lupardus has worked on numerous projects over the past 30 years as a drilling assistant and drill crew chief, providing drilling services for geotechnical, environmental, and construction projects. He now supervises all field activities. He has worked for industrial clients and for state and federal agencies. He has applied diversified knowledge of geotechnical drilling principles and practices to a broad array of assignments and field tasks and has the knowledge to correspond with team members to make decisions on geotechnical drilling issues and methods encountered in the field. He has provided training, supervision, and guidance to driller assistants in their development to become drillers.

Fields of Competence

- Responsible for supervising day to day field activity.
- Responsible for loading and mobilizing equipment to project site
- Complies with NGE's daily Tailgate Safety Plan, as provided by the Geotechnical Drilling Division Manager.
- Performs preventative maintenance of drill rigs and associated equipment.
- Remains up to date with current industry and governmental specifications and standards affecting geotechnical drilling.
- Communicates well with on-site engineering consultants in a professional manor.
- Trains and develops junior operators/assistants.

Registration/Certifications

- First Aid/CPR
- Safeland Training PEC
- OSHA 10 Hour Construction Industry Outreach Training, 2012

Employment History

- 2018 – Present
Drilling Field Supervisor, NGE
- 2017 – 2018
Driller, TRIAD Engineering
- 2015 – 2017
Driller, SLS
- 1988 – 2015
Driller, TRIAD Engineering
- 1986 – 1988
Driller's Assistant, TRIAD Engineering

Brandon Wallace



Mr. Wallace has worked on numerous projects over the past 20 years as a drill crew chief, providing drilling services for geotechnical, environmental, and construction projects. He has worked for clients in private industry as well as for state and federal agencies. He has applied intensive and diversified knowledge of geotechnical drilling principles and practices to various assignments and field tasks. He has the knowledge to correspond with team members to make decisions on geotechnical drilling issues and methods encountered in the field. He has provided training, supervision, and guidance to numerous driller assistants in their development to become drillers.

Fields of Competence

- Responsible for performing and documenting drilling project tasks (drilling logs).
- Responsible for loading and mobilizing equipment to the project site.
- Complies with NGE's daily Tailgate Safety Plan, as provided by the Geotechnical Drilling Manager.
- Performs preventative maintenance of drill rigs and associated equipment.
- Remains up to date with current industry and governmental specifications and standards affecting geotechnical drilling.
- Communicates well with on-site engineering consultants in a professional manor.
- Trains and develops junior operators/assistants.

Registration/Certifications

- NHI-SSI-132079 Certified
- Ohio Class A CDL
- Safeland Training PEC - 2013
- OSHA 10-Hour Construction Industry Outreach Training, 2012

Employment History

- August 2014 – Present
Drill Crew Chief, NGE
- July 2009 – August 2014
Lead Driller, F. Moore Drilling Service
- September 2008 – July 2009
Driller, H.C. Nutting Company
- February 2001 – September 2008
Driller, Central Star Drilling

CLIENT REFERENCES

Mr. Matt Hildebrand,
Trans-Canada/TC Energy
700 MacCorkle Avenue, SE
Charleston, WV 25314-1515
(304) 357-2000
(304) 894-2657

Mr. John McNew
United Coal Company
109 Appalachian Dr.
Beckley, WV 25801
(304) 255-9030
(304) 550-2324

Mr. Will Harless
Montage Resources Company
125 Putnam Street
Marietta, OH
(740) 374-2940
(304) 993-5510

Mr. Christopher Matkins, Senior Engineer
West Virginia Dept. of
Environmental Protection
1159 Nick Rahall Greenway
Fayetteville, WV 25840
(304) 574-4465

Mr. Eric Bess
Mott MacDonald
201 Pennsylvania S #400
Charleston, WV 25302
(304) 356-3010

Mr. Andrew Jordon
Pritchard Mining
P.O. Box 3311
Charleston, WV 25333
(304) 389-5715

Mr. G.R. Carr
G.R. Carr Excavation Inc.
297 Nathan Rd.
Pool, WV 26684
(304) 619-8903

Mr. Edward Brown
Blackhawk Mining, LLC
3228 Summit Square Place,
Lexington, KY
(304) 590-2487

Mr. Jamie Hake
Allegheny Contracting, LLV
13374 Boot Jack Road
Ridgway, PA 15853
(814) 772-2525

Mr. Brian Worley
Contoura Energy, LLC
208 Business St.
Beckley, WV 25801
(304) 929-6626

Mr. Larry Cook
Black Warrior Minerals
Charleston, WV 25304
(304) 376-0513



CLIENT REFERENCES

Mr. Jeremy Lewis, General Manager
Nitro Regional Wastewater Utility (City of Nitro)
P.O. Box 607
Nitro, WV 25143
(304) 755-3669

Hon. Joetta Hatfield, Mayor
Town of Fort Gay
P.O. Box 336
Fort Gay, WV 25514
(304) 648-5246

Mr. John Rubin, Chairman
Kanawha Public Service District
P.O. Box 8
Cabin Creek, WV 25035
(304) 595-2203

Mr. John Elliot, President / Owner
American Medical Facilities Management
240 Capitol Street, Suite 500
Charleston, WV 25301
(304) 344-1623

Mr. Curtis Keller, General Manager
Berkeley County Public Service Sewer District
P.O. Box 944
Martinsburg, WV 25402
(304) 263-8344

Hon. Randy Barrett, Mayor
City of Winfield
P.O. Box 596
Winfield, WV 25213
(304) 586-2122

Hon. Bill Rice, Mayor
City of Sistersville
200 Diamond Street
Sistersville, WV 26175
(304) 652-6361



S & S Engineers, Inc.
EOI for Contracting 5 North
Engineering Services

New River Engineering, Inc.



SAFETY

In today's ever-changing workplaces, we place safety as an utmost necessity for all employees. We are fully committed to provide our employees with knowledge and training to complete all tasks in a professional manner and to prepare them with a safe and hazard free work environment.



VERIFORCE[™]
INTEGRATED COMPLIANCE SOLUTIONS



S & S Engineers, Inc.
EOI for Contracting 5 North
Engineering Services

New River Engineering, Inc.



OUR TEAMING PARTNERS



Tempo Construction, LLC



Larson Design Group®

Larson Design Group



American Geotech, Inc.



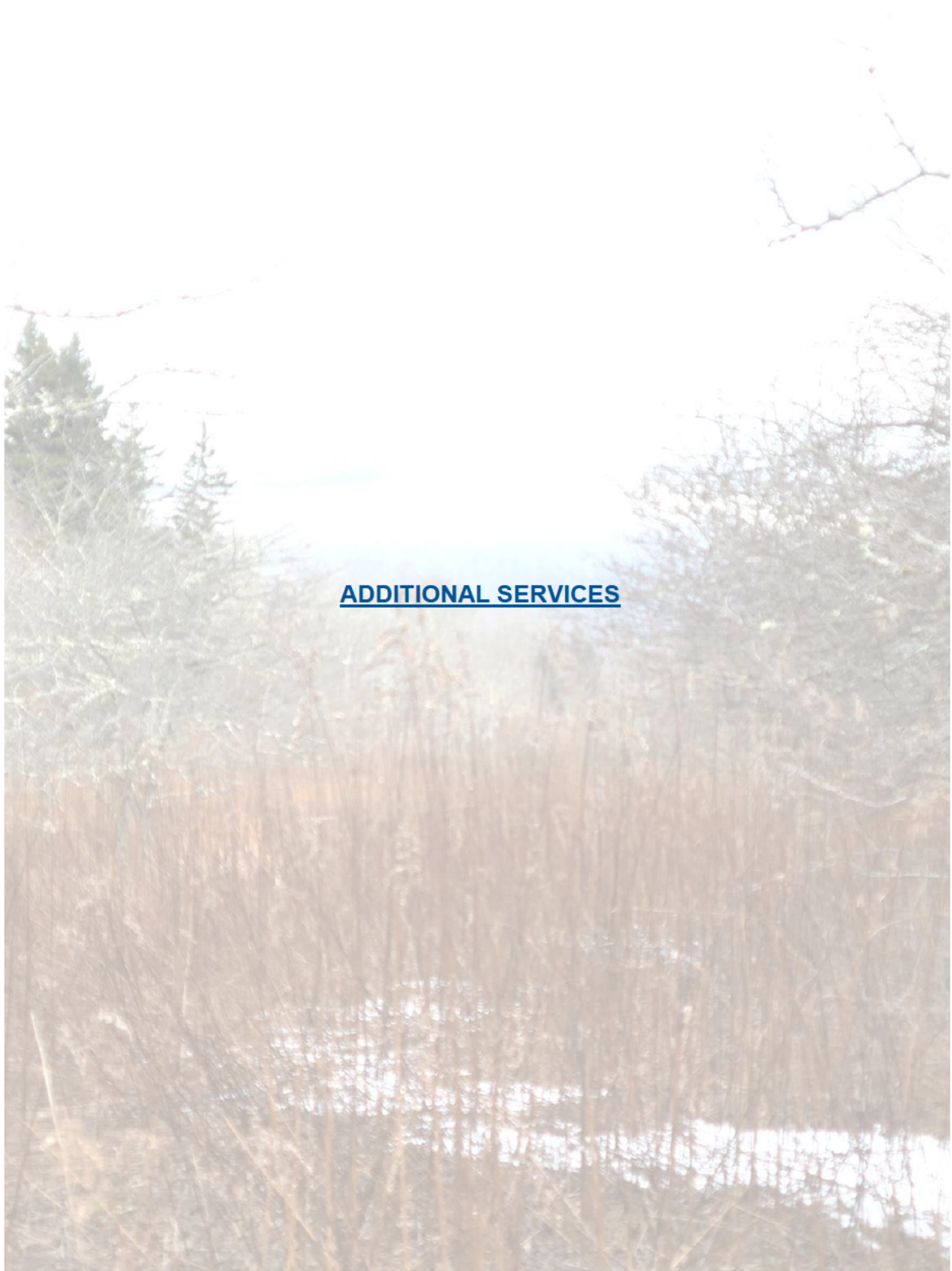
Carr Excavating



S & S Engineers, Inc.
EOI for Contracting 5 North
Engineering Services

New River Engineering, Inc.





ADDITIONAL SERVICES



S & S Engineers, Inc.
EOI Contract 5 North
Engineering Services

New River Engineering, Inc.



Water Supply, Treatment, Storage, and Distribution Systems

With over forty years of experience, we are your one stop shop for water supply, treatment, storage, and distribution systems. We implement our four-step process to each project to develop a better understanding of our client's needs and expectations: 1. Preliminary Engineering Report; 2. Design Phase; 3. Bidding Phase; 4. Construction Administration. We are "hands on" during all phases to ensure our clients obtain what they want in every project.

As a locally owned "small family" consulting firm, our clients get more for their money and receive more one-on-one time with our employees, which yields a more pleasurable experience. We excel in helping our clients ascertain funding from various governmental agencies to assist in the financing of the project.



S & S Engineers, Inc.
EOI Contract 5 North
Engineering Services

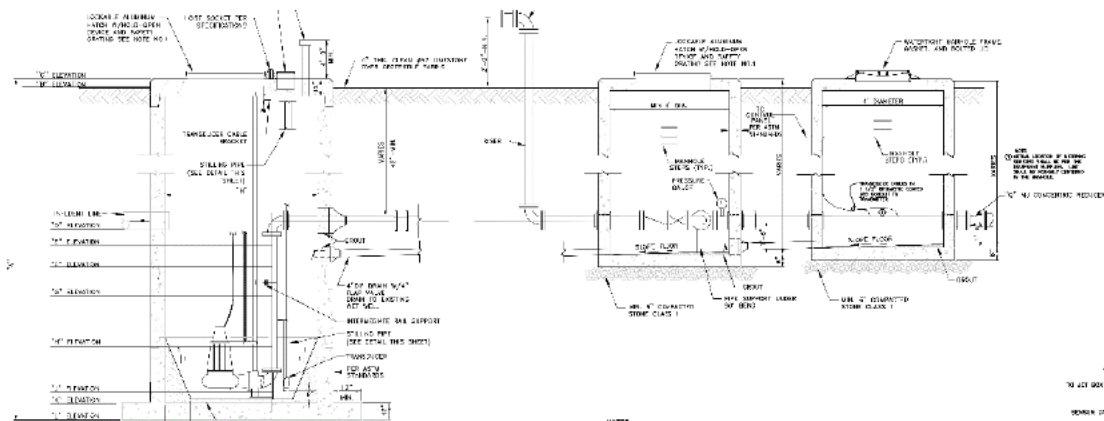
New River Engineering, Inc.



Wastewater Collection & Treatment Systems / Industrial and Hazardous Waste Treatment Systems

We recognize the importance and understands the hurdles that our clients must maneuver to offer wastewater service to their customers. We have a proven track record with a vast knowledge of local conditions and an excellent reputation with all regulatory, funding, permitting, and enforcement agencies. Our crew, from CAD Techs to the President, is included in all phases of the project. We have the knowledge and capacity to carry out the workload in a timely manner.

We have a full understanding of wastewater systems from small treatment facilities to municipalities, all the way to industrial wastewater systems. We are thoroughly knowledgeable in obtaining federal, state, and local funding, and are available to you 24/7. We will see your projects from conception to completion.



S & S Engineers, Inc.
EOI Contract 5 North
Engineering Services

New River Engineering, Inc.



Construction Management and Civil Site Design

We have been providing construction engineering solutions to our clients, including towns and municipalities for a combined total of over 60 years. We have established ourselves as one of the leading consulting firms in the area, and our experienced staff is committed and dedicated to your project from the initial site design and bid package development to inspections and certification.

We also offer Civil Site Design services including sub-division layouts, commercial development and design, HCA project areas, well pads, impoundments, street paving, drainage control, solid waste landfill, and impoundment design. We know and understand the value and importance of properly designed sites that offer the most cost effective and beneficial for our clients. Construction Management and Civil Site Design services include, but are not limited to the following:

- 3D Site Design
- Haulage & Access Road Design
- Excess Spoil Disposal Site Design
- Drainage Design and Runoff Calculations
 - Solid Wastewater Management and Land Fill Design
- Subdivision Design and Permit Applications
- Site Development Plans
- Pre, During, & Post Construction Surveying
- HECRAS Modeling
- Stability analysis
 - Site inspections / Project Management
 - Certifications
 - Cost Estimates
 - Subdivision Design
 - Street Paving Design and Drainage Control
 - Construction Management
 - Earth work quantity Estimates
 - Construction Staking
 - Concrete Inspection and Testing



S & S Engineers, Inc.
EOI Contract 5 North
Engineering Services

New River Engineering, Inc.



Environmental Permitting

Environmental permitting has become a complex and confusing landscape. We have an efficient and thorough team of environmental consultants making sure permitting, regulatory compliance, construction monitoring, and biological surveying are done with the utmost quality and cost effectiveness. This will save your project time and money from the start and avoid costly delays in the future. Compliance with Clean Air and Water Acts, NEPA, and other state and federal requirements is invaluable to every project. Our attention to detail and practical solutions to complex issues are second to none. Our environmental permitting team will make sure once your project is off the ground, it stays there! Environmental Permitting services include but are not limited to the following:

Environmental Permitting services

- Storm Water Permitting, Design, and Management
- Water Quality Monitoring
- Flood Plan Determination and Flood Elevation Certificates
- Groundwater Protection Plans
- Stream & Wetland Delineation
- Spill Prevention Control & Countermeasures Plan (SPCC)
- Article 3 Mining Permits
- Article 11 NPDES Permits
- West Virginia 401 Certification Permitting
- Wastewater Permitting, Design, & Management
- Clean water Act Section 402 Permitting (NPDES Permit)
- United States Army Corps of Engineers 404 Permitting
- Air Quality Permitting
- Best Management Practices (BMP) Planning



S & S Engineers, Inc.
EOI Contract 5 North
Engineering Services

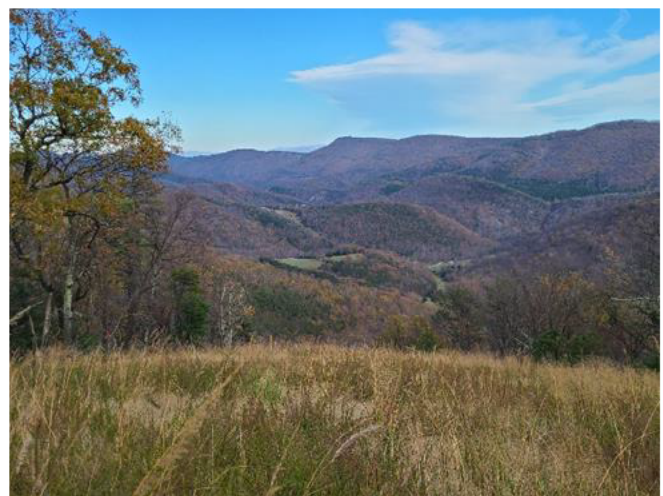
New River Engineering, Inc.



Environmental Permitting (Cont.)

Environmental Permitting Services

- Ohio State Historic Preservation Office (SHPO)
- National Environmental Policy Act (NEPA)
- US Environmental Protection Agency (EPA)
- National Conservation Planning Partnership (NRCS) & Forest Service
- United States Department of Agriculture (USDA) – Rural Development
- West Virginia Public Lands
- WV Department of Natural Resources (DNR)
- US Fish & Wildlife
- WV Culture & History
- Ohio Department of Natural Resources (DNR)
- Ohio environmental Protection Agency (DNR)
- Ohio Environmental Protection Agency (EPA)
- Ohio Public Works Commission (OPWC)
- Ohio Department of Commerce/Division of Industrial Compliance
- Virginia Department of Environmental Quality (DEQ)
- Federal Aviation Administration (FAA)
- EPA & WV DEP Compliance
- Environmental Site Assessment
- Local Agency Building / Construction



S & S Engineers, Inc.
EOI Contract 5 North
Engineering Services

New River Engineering, Inc.



Mining Engineering

We are a full-service surveying, engineering, and consulting firm with deep roots in the mining industry of southern WV. Our qualified staff of professional engineers, engineering technicians, and professional surveyors have decades of combined experience in the field of mining engineering. We have established ourselves as one of the areas' leading mining engineering firms – specializing in both surface and underground mine design / planning; surveying; environmental and safety permitting; and project / construction management. We put the focus on identifying the needs of clients and providing cost-effective solutions with real results.

Mining Engineering Services

- Coal Reserve Analysis and Evaluation
- Surface Mine Design and Planning
- Mine Surveying and Mapping
- MSHA / WVOHS&T Permitting
- Ventilation Plans
- Roof Control Plans
- Mining Under Bodies of Water (1716 Permit)
- Horizontal Drilling
- Methane and Dust Control (MMU Plan)
- West Virginia Mineral Tax Appraisal
- Returns
- Pre-Blast Surveys
- Prospecting Permits & Releases
- Slope Stability Analysis
- Reclamation & Revegetation Planning
- Valley Fill Certifications
- Drainage Certifications
- Ventilation Plans
- MSHA Compliance
- MHS&T Compliance



S & S Engineers, Inc.
EOI Contract 5 North
Engineering Services

New River Engineering, Inc.



Oil & Gas Engineering

The natural gas boom in the US has brought a wealth of opportunity for energy companies in the United States. We have answered the call of these companies by providing solutions to the unique design, permitting, and environmental needs of the ever-evolving Oil and Gas Industries

Oil and Gas engineering requires a unique approach to project development that differs from mining engineering. Our experienced staff is available to consult with clients on the most practical and cost-effective manner of addressing oil and gas engineering concerns. With a professional staff encompassing surveying, AutoCAD, professional engineers, and engineering technicians – we have the capacity to tackle the most complex oil and gas engineering projects

Oil and Gas Engineering Services

- Gas Well Plats and Permits
- Well Location and Stakeout
- Site Design
- Gas Line Surveys
- Unit Surveys
- HCA Project Areas
- Right-of-Way
- Impoundment Design, Construction, and Certification
- Access Road Design and Stakeout
- Construction Layout and Oversight
- Pumps & Water Line Design



S & S Engineers, Inc.
EOI Contract 5 North
Engineering Services

New River Engineering, Inc.



Geotechnical Engineering

We have professional engineers and engineering technicians with extensive geotechnical engineering experience. We specialize in compaction testing, foundation design, slope failure remediation and embankment design. We put the focus on identifying the needs of clients, and providing cost-effective solutions with real results

Geotechnical Engineering Services

- Drilling Oversight, Management, and Inspection
- Slope failure Remediation
- Slope Stability Analysis
- Gabion Basket Wall Design
- Compaction Testing
- Foundation Design
- Embankment Design
- Drainage Analysis
- Soldier Pile Wall Design



S & S Engineers, Inc.
EOI Contract 5 North
Engineering Services

New River Engineering, Inc.



Structural Engineering

We offer a full range of structural engineering services to help meet the needs of our clients. In addition to professional training, our structural capabilities are bolstered by a depth and breadth of experience developed through solving unique and complex engineering challenges. We have experience with projects in the private, public, commercial, and industrial sectors. Whether designing new structures, retrofitting existing structures, addressing overstressed conditions, or assessing structural integrity, our clients can rest assured that we are capable of meeting their specific needs.

Structural Engineering Services

- Structural Analysis
- Steel Structures and Building Enclosures
- Modular Design
- Pilings and Foundations
- Concrete Containment Structures
- Retrofit of Existing Overstressed Structures
- Building Permits and Code Analysis
- Bridge Cranes, Monorails, Jibs, etc.
- Truck/Rail Unloading Stations
- Lifting Beams and Rigging
- Industrial Architectural Design
- Structural Inspections and Assessments



S & S Engineers, Inc.
EOI Contract 5 North
Engineering Services

New River Engineering, Inc.



Surveying

We have established ourselves as one of the areas leading surveying firms with our 40+ years of experience in property, boundary, and topographic mapping. Our staff is skilled in courthouse research, finding property evidence, providing quality property surveys, and construction stake-outs.

Additionally, we offer aerial mapping utilizing drone surveys. Our aerial mapping has been proved to be invaluable for construction progress mapping, well pad progression, subdivision layouts, and civil site designs. Surveying services include, but are not limited to the following:

- Property Abstract & Research
- Boundary Surveys
- Survey Plats
- Subdivision Design & Layout
- Construction Surveying & Stakeout
- Underground Mining Surveying
- Right-of-Way & Land Acquisition
- GPS Services
- Aerial Mapping / Control
- Drone Flight & Surveying
- Topographical Surveys
- ALTA / ACSM Land Title Surveys
- Unit Surveys
- Surface Mining Surveying
- Computer Mapping
- GIS Services



S & S Engineers, Inc.
EOI Contract 5 North
Engineering Services

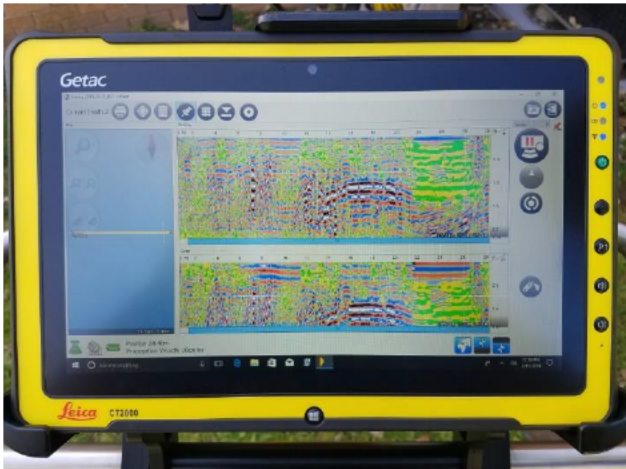
New River Engineering, Inc.



Subsurface Utility Survey

We use some of the most advanced technology in Ground Penetrating Radar (GPR), pipe and cable locators, and smoke testing machines to accurately survey, map and inspect subsurface utilities. These services have been extensively used by our clients in the construction, oil, and gas industries, as well as public service districts. Subsurface Utility Survey services include, but are not limited to the following:

- Pipe and Cable Location
- Sewer Line Smoke Testing
- Ground Penetrating Radar (GPR)
- Internal Video Pipe Inspection



S & S Engineers, Inc.
EOI Contract 5 North
Engineering Services

New River Engineering, Inc.



Fiberoptic Broadband Services

We team with Mountain State Fiber and Alpha Technologies company which is a registered WV CLEC and was founded in 2000 specializing in Wide Area and Local Area Networks. Mountain State Fiber and Alpha Technologies is headquartered in Hurricane, WV.

Working with a full service fiber optic firm, S & S Engineers, Inc. (S & S) / New River Engineering Inc. (NREI) and Mountain State Fiber can provide a whole host of services to our clients including, but not limited to the following:

- Build Specifications based on network
- PONs
- Metro Ethernet
- Support for Tier 1-3 Helpdesk— Technical questions, Network Outages, Internet engineering and routing
- Regulatory—Federal: FDOF, USAC, Erate, USDA; State: CLEC, PSC
- Complete understanding of Pole Attachment Process

Resources	Security Audits	Support	Regulatory
<ul style="list-style-type: none"> •Professional Engineers •Professional Surveyors •Network Engineers •Build Specifications based on network •PONs •Metro Ethernet •Ground Penetrating Radar •GIS Analyst 	<ul style="list-style-type: none"> •HIPPA - Healthcare •SOC I and II •PCI – Credit Cards •FISMA 	<ul style="list-style-type: none"> •Tier 1 Helpdesk – Address basic customer technical questions •Tier 2 Helpdesk – Network Outages and support •Tier 3 Helpdesk – Internet engineering and routing 	<ul style="list-style-type: none"> •Federal •RDOF •USAC •Erate •USDA •State •CLEC •Interaction with PSC •Complete understanding of Pole Attachment Processes

mountain state
fiber



S & S Engineers, Inc.
EOI Contract 5 North
Engineering Services

New River Engineering, Inc



Funding Assistance

We provide assistance for our clients in the preparation of grant/loan funding applications. We will represent our clients and coordinate with the various funding agencies to obtain a favorable funding package. Once the funding has been secured, we will then begin to develop detailed engineering drawings and specifications for the project. Funding Sources can include, but are not limited to the following:

- Ohio Public Works Commission Infrastructure Programs
- Ohio Water Development Authority
- Private Bank Funding
- Appalachian Regional Commission (ARC)
- United States Department of Agriculture Development Loans (US DA-RD)
- Housing and Urban Development – Community Development Block Grant (HUD-CDBG)
- Ohio Environmental Protection Agency (Ohio EPA)
- Ohio Rural Community Assistance Program (Ohio RCAP) – Funding Assistance
- United States Army Corps of Engineers (USACE)



Technical Expert Testimony

With over forty years of professional engineering experience, we are more than capable of providing expert witness testimony to our clients should a need arise. We have multiple registered professional engineers in various disciplines, and these professionals are licensed throughout the United States. We are more than willing and ready in an utmost resolute manner to defend our clients and ensure that their interests are represented in the courtroom.



S & S Engineers, Inc.
EOI Contract 5 North
Engineering Services

New River Engineering, Inc.





GEOTECHNICAL DRILLING SERVICES

GEOTECHNICAL DRILLING SERVICES

Geotechnical drilling is one of NGE's core areas of practice. Our highly-qualified and experienced staff of geotechnical engineers, geologists, and technicians enables us to provide practical and economical solutions to a variety of geotechnical problems. We are especially experienced and qualified in dealing with the types of geotechnical issues typically encountered in the Appalachian region.

SOME OF THE DRILLING AND EXPLORATION SERVICES OFFERED INCLUDE:

- Test borings with standard penetration sampling
- Rock coring and sampling
- Shelby tube sampling
- Piezometer and monitoring well installation
- Slope inclinometer installation
- Dynamic cone penetrometer testing
- Portable drilling equipment for difficult site access

All of NGE's drill rigs are equipped with hollow stem augers, standard penetration testing and sampling equipment, wireline rock coring equipment, AW and NQ drilling rods.

NGE'S CURRENT DRILLING EQUIPMENT INCLUDES THE FOLLOWING:

- Two Diedrich D-50 rubber track mounted drill rig
- Two CME 45 rubber track mounted drill rigs
- Acker Soil Scout rubber track mounted drill rig
- Acker portable tripod mounted drill rig
- Wildcat portable dynamic cone penetrometer
- AMS portable auguring and sampling equipment
- Casing advancer system
- Three drill rig haul trucks (tilt-bed and tractor/trailer)
- Water haul trucks and trailers
- Three off road utility vehicles
- Numerous water pumps, hose, and portable storage tanks



CONTACTS:

GENE BROWN, P.E.

Office #: (304) 201-5180

Cell #: (304) 389-7865

Email: gbrown@ngeconsulting.com

MIKE FRAME

Office #: (304) 201-5180

Cell #: (304) 993-5435

Email: mframe@ngeconsulting.com

SAFETY STATS:





CONSTRUCTION INSPECTION SERVICES

NGE offers a range of construction monitoring and inspection services to support highway, building and airport projects. NGE has a staff of well-trained and highly-experienced construction technicians who work under the supervision of licensed professional engineers. Our technicians are trained and have WVDOH certification in the areas of soil compaction, aggregate and bituminous materials.

NGE can provide and manage the following services:

- Fill placement monitoring and soil compaction testing
- Concrete sampling and testing
- Aggregate sampling and testing
- Examination and verification of foundation bearing soils
- Pile driving inspection
- Drilled pier inspection



CROSS-HOLE SONIC LOGGING OF DRILLED SHAFTS

NGE is experienced with conducting Crosshole Sonic Logging (CSL) testing to evaluate the integrity of drilled shafts. Our cross-hole analyzer is approved to conduct CSL testing in accordance with ASTM Standard D6760. Typically, our technician conducts the field tests on the drilled shafts and briefly reviews the data to verify that enough information has been collected. The data is then fully analyzed at our office and a final report summarizing the test results is prepared by our registered professional engineer.

Our construction inspection staff will ensure your specific project goals are met competently and efficiently. Not only can you rest assured that you have chosen the most knowledgeable company for the job, working with NGE will also help you meet your DBE goals for state-funded projects and Small Disadvantaged Business goals for federally-funded projects.



Cross-Hole Sonic Logging Equipment

CONTACTS:

GENE BROWN, P.E.

Office #: (304) 201-5180

Cell #: (304) 389-7865

Email: gbrown@ngeconsulting.com

MIKE FRAME

Office #: (304) 201-5180

Cell #: (304) 993-5435

Email: mframe@ngeconsulting.com

SAFETY STATS:





GEOTECHNICAL ENGINEERING SERVICES



NGE is a leading and recognized expert in the geotechnical engineering field. Our geotechnical practice combines senior geotechnical engineers with our in-house drill rigs and drilling staff to streamline geotechnical designs. Our team is experienced in characterizing subsurface conditions and predicting reactions to variable loading conditions. The benefits of utilizing our geotechnical engineering services often result in improved foundation design, fast-track construction time, lower project costs, and reduced delays. We are especially experienced and qualified in dealing with the types of geotechnical issues typically encountered in the Appalachian region.

SOME OF THE GEOTECHNICAL ENGINEERING SERVICES NGE PROVIDE INCLUDE:

- Commercial development geotechnical investigations and reports
- Shallow and deep foundation analysis
- Highway and bridge geotechnical studies
- Well pads and compressor stations geotechnical investigations
- Water storage tank investigations
- Freshwater and wastewater impoundment investigations
- Mine subsidence investigations
- Pile drivability studies
- Groundwater and seepage studies
- Slope stability studies
- Fill embankment analysis and design
- Cut slope analysis and design
- Retaining wall design
- Landslide investigations and remedial designs
- Laboratory soil testing
- Geotechnical instrumentation



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MIKE FRAME

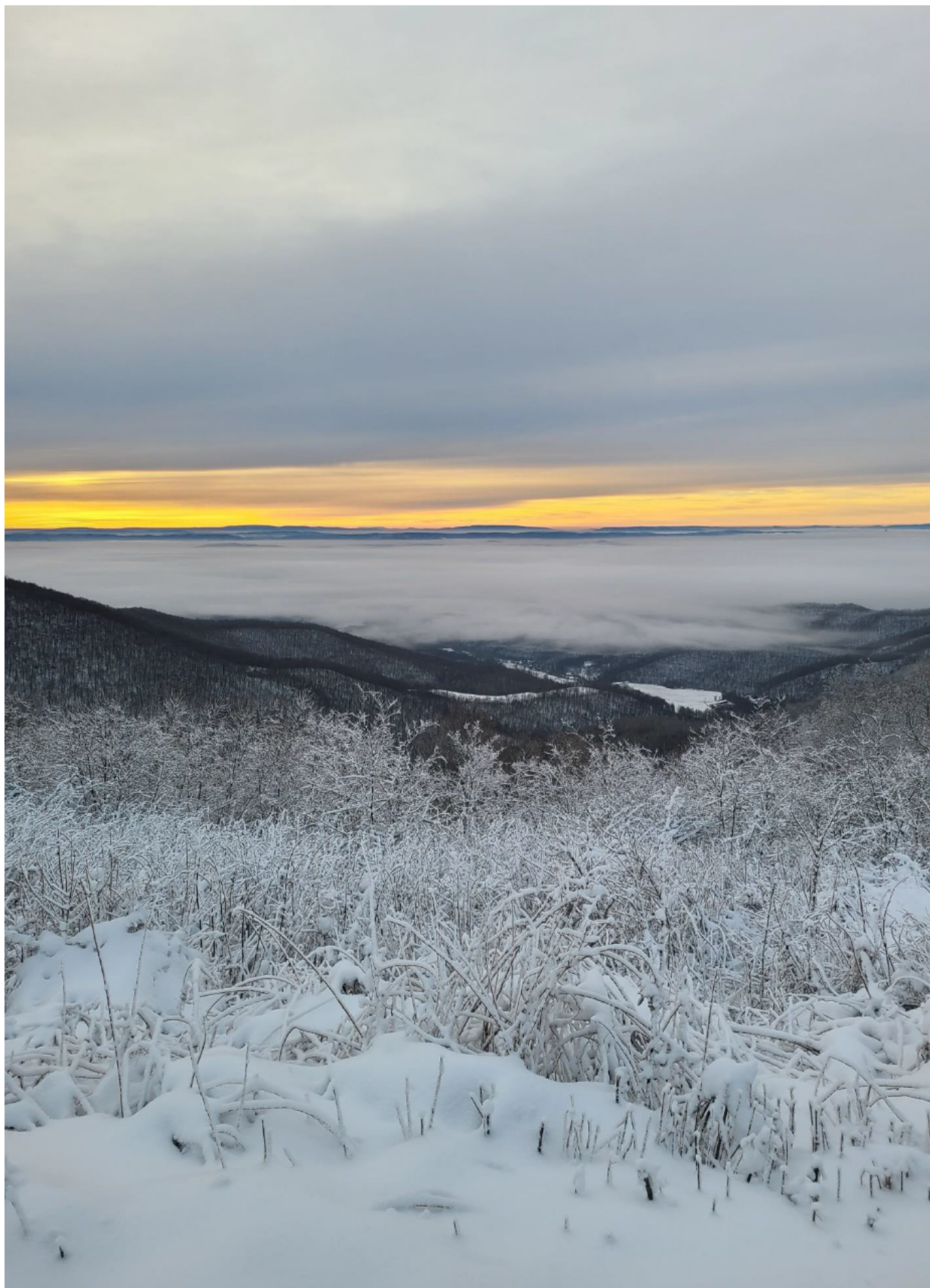
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SAFETY STATS:





S & S Engineers, Inc.
EOI Contract 5 North
Engineering Services

New River Engineering, Inc.



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment "A"

PROJECT NAME EOI - 2022 AML Contract 6 Project North		DATE (DAY, MONTH, YEAR) 22, June, 2022		FEIN 55-0764054																																					
1. FIRM NAME New River Engineering, Inc/ S&S Engineers		2. HOME OFFICE BUSINESS ADDRESS 202 School Drive Shrewsbury, WV 25015		3. FORMER FIRM NAME																																					
4. HOME OFFICE TELEPHONE 304-595-3290	5. ESTABLISHED (YEAR) 1998	6. TYPE OWNERSHIP Individual Corporation X Partnership Joint-Venture		6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES NO X																																					
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE 202 School Drive, Shrewsbury WV 25015 / 304-595-3290 / Christopher Burford / 47																																									
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM See attached			8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS																																						
9. PERSONNEL BY DISCIPLINE																																									
<table border="0"> <tr> <td><u>2</u> ADMINISTRATIVE</td> <td>— ECOLOGISTS</td> <td>— LANDSCAPE ARCHITECTS</td> <td><u>1</u> STRUCTURAL ENGINEERS</td> </tr> <tr> <td><u>1</u> ARCHITECTS</td> <td>— ECONOMISTS</td> <td><u>1</u> MECHANICAL ENGINEERS</td> <td><u>22</u> SURVEYORS</td> </tr> <tr> <td>— BIOLOGIST</td> <td>— ELECTRICAL ENGINEERS</td> <td><u>2</u> MINING ENGINEERS</td> <td>— TRAFFIC ENGINEERS</td> </tr> <tr> <td><u>4</u> CADD OPERATORS</td> <td>— ENVIRONMENTALISTS</td> <td>— PHOTOGRAMMETRISTS</td> <td>— OTHER</td> </tr> <tr> <td>— CHEMICAL ENGINEERS</td> <td>— ESTIMATORS</td> <td>— PLANNERS: URBAN/REGIONAL</td> <td>1 - GIS Analyst</td> </tr> <tr> <td><u>2</u> CIVIL ENGINEERS</td> <td>— GEOLOGISTS</td> <td><u>1</u> SANITARY ENGINEERS</td> <td></td> </tr> <tr> <td><u>2</u> CONSTRUCTION INSPECTORS</td> <td>— HISTORIANS</td> <td>— SOILS ENGINEERS</td> <td></td> </tr> <tr> <td><u>2</u> DESIGNERS</td> <td>— HYDROLOGISTS</td> <td>— SPECIFICATION WRITERS</td> <td><u>49</u> TOTAL PERSONNEL</td> </tr> <tr> <td>— DRAFTSMEN</td> <td></td> <td></td> <td></td> </tr> </table>						<u>2</u> ADMINISTRATIVE	— ECOLOGISTS	— LANDSCAPE ARCHITECTS	<u>1</u> STRUCTURAL ENGINEERS	<u>1</u> ARCHITECTS	— ECONOMISTS	<u>1</u> MECHANICAL ENGINEERS	<u>22</u> SURVEYORS	— BIOLOGIST	— ELECTRICAL ENGINEERS	<u>2</u> MINING ENGINEERS	— TRAFFIC ENGINEERS	<u>4</u> CADD OPERATORS	— ENVIRONMENTALISTS	— PHOTOGRAMMETRISTS	— OTHER	— CHEMICAL ENGINEERS	— ESTIMATORS	— PLANNERS: URBAN/REGIONAL	1 - GIS Analyst	<u>2</u> CIVIL ENGINEERS	— GEOLOGISTS	<u>1</u> SANITARY ENGINEERS		<u>2</u> CONSTRUCTION INSPECTORS	— HISTORIANS	— SOILS ENGINEERS		<u>2</u> DESIGNERS	— HYDROLOGISTS	— SPECIFICATION WRITERS	<u>49</u> TOTAL PERSONNEL	— DRAFTSMEN			
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<p>TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: <u>5</u></p> <p>*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.</p>																																									
10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? <input type="checkbox"/> YES <input type="checkbox"/> NO																																									

12.	A.	Is your firm's personnel experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?
	X	YES Description and Number of Projects: <u>Various Projects/Daily We work daily with various mining clients to produce mining and reclamation plans. NREI has worked with Esmer and Assoc. on several AML jobs. NREI has worked with Special Rec on Fall Rock</u>
		NO <u>—Surface Mine . NREI has recently been awarded the Carbondale Portals Project.</u>
	B.	Is your firm experienced in Soil Analysis?
	X	YES Description and Number of Projects: <u>Various Projects/Daily - Retaining Wall Design, Slope Reformation, Foundation Design, Slope Stability, Soil Classification.</u>
		NO
	C.	Is your firm experienced in hydrology and hydraulics?
	X	YES Description and Number of Projects: <u>Various/ Daily - SWORA Assessments, HECRAS Modeling, Storm Water Collection Systems, Water Transportation System, Sanitary Sewer Collection, Treatment & Pumping Systems</u>
		NO
	D.	Does your firm produce its own Aerial Photography and Develop Contour Mapping?
	X	YES Description and Number of Projects: <u>Daily Activity</u> <u>NREI Currently operates 2 Aerial Drone Systems to produce Aerial Mapping for our clients.</u>
		NO
	E.	Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)
	X	YES Description and Number of Projects: <u>Various/Daily - Engineering/Design/ Contruction of water treatment systems and water</u> <u>transportation systems (i.e. City of Sistersville, Nitro, Fort Gay, etc.)</u>
		NO
	F.	Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?
	X	YES Description and Number of Projects: <u>Numerous - NREI has been involved in the design, engineering, carts of selenium</u> <u>Bic Reactor treatment systems, Iron/PH Retention Pumps and Aluminum Translator with several of our clients including: Maple Coal Company,</u>
		NO <u>Walter Resources, WWMV LLC, Blackhawk Mining, Met Inc , etc.</u>

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Burford, Chris D President NREI	2	15	2

Brief Explanation of Responsibilities

Management of surface and underground mining permitting, plan and reclamation services. Over 10 survey crews, and daily activities.

Mining Cards with State and Federal Agencies. Management and oversight of subcontractors performing mining activities. Reclamation Act & Civil Site Construction.

EDUCATION (Degree, Year, Specialization)

Associate of Science, Civil Engineering Technology, 2004

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Contractors Association of West Virginia, West Virginia Rural Waters Association, West Virginia Coal Association, Friends of Coal Association

REGISTRATION (Type, Year, State)

N/A

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Parker, Jessie O P.E, President S&S		20+	20+

Brief Explanation of Responsibilities

Planning, design, construction administration, grading plans, construction management, payment request approvals, and quantity & cost estimates.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, Civil Engineering, 2002 Master of Science, Engineering, 2006

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Water Environment Federation, American Water Works Association, American Society of Civil Engineers, Society of American Military Engineers, West Virginia Rural Waters Association, Contractors Association of West Virginia

REGISTRATION (Type, Year, State)

P.E - WV, OH, KY, VA, MD, NC, SC, PA, TN
Environmental Site Assessment Commercial Real Estate 2016

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Strope, Charles T Secretary of NREI	0	12	2

Brief Explanation of Responsibilities

Currently the Principal Engineer of NREI. Responsible for the coordination of survey crews and inspection teams. I have developed approximately 200+ steep slope Assessment and Hazardous Slope work plans for the natural gas industry. Oversee development of deep mine plans. Also responsible for the geotechnical engineering projects within the company, including retaining wall design, shallow and deep foundation design, slope stability and remediation designs.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, Mining Engineering, 2009 , Bachelor of Science, Civil Engineering, 2009 , MBA, 2010

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Contractors Association of West Virginia, West Virginia Coal Association, Friends of Coal Association

REGISTRATION (Type, Year, State)

APNGA Portable Nuclear Gauge Safety and USDOT Hazmat Certified, APNGA Certificate of Achievement Radiation Safety Officer
P.E- WV, OH, KY, MI, IL, PA, MD

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Proctor, Michael, L Senior Engineer		16	1

Brief Explanation of Responsibilities

Worked on technical areas for surface mines and designed final reclamation for surface mines

EDUCATION (Degree, Year, Specialization)

Bachelor of Science 2005 Civil Engineering Technology WVU Institute of Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Charles B. Kurzyna, Vice President	2	15	2

Brief Explanation of Responsibilities

Owner/Principal of New River Engineering, Inc. 1998 2021 managed surveying and engineering staff of 20 30 employees working for the mining, construction, and oil and gas industries. Prior experience with various coal mining and construction companies for approximately 20 years.

EDUCATION (Degree, Year, Specialization)

BS Mining Engineering, 1979 Specializing in environmental permitting and surface and underground mine design.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Friends of Coal Association, WV Coal Association
SME, Contractors Association of WV

REGISTRATION (Type, Year, State)

PE (WV, Ohio, Virginia, Kentucky, Pennsylvania, Georgia
PS (WV)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Scriptunas II, Vincent W.	2	41	2

Brief Explanation of Responsibilities

Worked on technical areas of underground and surface mines. Design mine seals for deep mines to final reclamation of surface mine

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Bachelor of Science, 1981, Engineering of Mines

REGISTRATION (Type, Year, State)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Treadway, Benjamin E.	2 years	16 years	2 years

Brief Explanation of Responsibilities

Plan and design various coal mining related items including spoil fills, drainage ponds and ditches, culvert pipes, roadways, mine sites, regrade,

etc.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2005, Civil Engineering Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Contractors Association of West Virginia
West Virginia Coal Association & Friends of Coal Association

REGISTRATION (Type, Year, State)

EIT, 2008, WV

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Shelton, David, M., Vice President			18

Brief Explanation of Responsibilities

Surveying, construction stakeout, construction inspection, project design, project estimation, project management

EDUCATION (Degree, Year, Specialization)

A.S., 2004, Civil Engineering Technology

B.S., 2005, Civil Engineering Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

WEF, CAWV, WVRWA

REGISTRATION (Type, Year, State)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Sanghavi, Ashok M., P.E.,DEE, QEP Senior Engineer	5	30	30

Brief Explanation of Responsibilities

Planning, Design, construction management, technical expert testimony for environmental and general civil engineering projects. Prepared Phase 1 environmental assessments , subsequent Phase II and Phase III remediation work.

EDUCATION (Degree, Year, Specialization)

Master of Science , Civil Engineering, 1970

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Water Environment Federation, American Water Works Association, American Society of Civil Engineers, WV Rural Water Association, Contract. Assoc. of WV

REGISTRATION (Type, Year, State)

P.E. - WV , Diplomat-American Academy of Environmental Engineers, Qualified Environmental Professional, IPEP

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

Brief Explanation of Responsibilities

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES

Equipment : Trimble R10 GPS / RTK survey grade GPS Systems, TopCon / Nikon total stations, Phantom Drone Systems, Leica GPR Cort, Leica Pipe and Cable Locaters,

Robotic Total Stations, Trexler Nuclear Density Gauge, various surveying support tools, pick-up trucks, geothermal drill rigs, and laboratory support.

Software : Microsoft Office Suites, AutoCAD Map 3D, AutoCAD Civil 3D, Carlson SurvCAD, Rec Science Slide 2D, Adobe, SedCAD (hydrology),

Reme 2K , HECRAS, Trimble Business Cutter, Drone Processing, Leica Overture.

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Maple Eagle Complex Fayette/Kanawha County, WV	Currently Blackhawk Mining	Engineering, Design, Survey Permitting for surface/ underground/ reclamation active	\$8,500,000 Currently	Daily/On-Going
American Mining Group	Kevin Jordan PO Box 33 Spring Dale, WV 25986	Engineering, Design, Survey Permitting for surface/ underground/reclamation active	\$950,000 Currently	Daily/On-Going
United Coal	109 Appalachian Drive Beckley, WV 25801	Engineering, Design, Survey Permitting for surface/ underground/reclamation active	\$13,500,000 Currently	Daily/On-going
Marshall County Coal Co.	46226 National Road West St.Clairsville, OH 43950	Overseen and Performed a geotechnical investigation for expansion of plat	\$40,000 Currently	95%
AML Carbondale	WV DEP	Engineering, Design of mine portal Reclamation	TBD	0% - Recently Awarded
Nitro Regional	City of Nitro PO Box 607 Nitro, WV 25143	Engineering, Design, Construction Management	\$3,600,000	50% complete of design phase/on-going
City of Sistersville	Hon. Bill Rice, Mayor 200 Diamond Street Sistersville, WV 26175	Replacement of 3600 ft water line. Installation of 250 Gallon water booster station	\$3,000,000	95%/on-going
TOTAL NUMBER OF PROJECTS:		TOTAL ESTIMATED CONSTRUCTION COSTS: \$		
Various/Numerous		Ongoing		

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS

[illegible]

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Coonskin Wall	Kanawha County Parks & Recreation Commission 375 Henry C Hoppy Shores Drive Charleston, WV 25302	\$2,500,000	2021	Yes
Frasure Creek Surface/ Underground Mining Fayette County, WV	Frasure Creek Mining PO Box 100 Oak Hill, WV 25901	\$1,500,000	2018	Yes
TC Energy	700 MacCorkle Ave, SE Charleston, WV 25314-1515	\$1,900,000	2020	Yes
Walter Resources, Maple Complex Fayette County, WV	Currently Blackhawk Mining LLC 250 West Main Street, Suite 2000 Lexington, KY 40507	\$3,750,000	2019	Yes
American Tower Corporation	1222 Harmony Rd, Gandeeville, WV 25243	\$750,000	2020	Yes
Nitro Regional	City of Nitro PO Box 607 Nitro, WV 25143	\$8,300,000	2017	Yes
WVDEC Denmar	4319 Denmar Road Hillsboro, WV 24946	\$600,000	2017	Yes

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
N/A					

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program.

20. The foregoing is a statement of facts.

Signature: 

Title: President

Date: 6/22/22

Printed Name: Christopher Burford

AML and RELATED PROJECT EXPERIENCE MATRIX																							
PROJECT	Exp. Basis C=Corp. P=Personnel *	Additional Info Provided in Section (s) **	PROJECT EXPERIENCE REQUIREMENTS															PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional					
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/ Replacement	Construction Inspection/Managem ent	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	CHRIS BURFORD	CHUCK KURZYNA	BEN TREADWAY	VINCE SCR PTUNAS	CHARLES STROPE	JESSIE PARKER
Maple Eagle			Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	N	Y	M	P	M	M	P	
AMG			N	N	N	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	N	Y	M	P	M	M	M	
Marshall Coal Co.			N	N	N	N	N	N	Y	N	Y	N	Y	N	Y	N	Y	M		M	M	P	P
AML Carbondale			TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Cyprus Kanawha			Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	N	Y		P		M		
United Coal			Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	N	Y	M	P	M	M	P	
TC Energy			N	N	N	Y	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	M	P	M	M	P	P
Nitro Regional			N	N	N	Y	N	N	N	N	Y	Y	Y	N	N	N	Y	M				M	P
City of Sistersville			N	N	N	Y	N	N	N	N	Y	Y	Y	Y	N	N	Y	M				P	P
KPSD			N	N	N	Y	N	N	N	N	Y	Y	Y	Y	N	N	Y	M				M	P
Patriot Coal Co.			N	N	N	Y	N	N	N	N	Y	Y	Y	Y	N	N	Y						P

* List whether project experience is corporate or personnel based or both.

** Use this area to provide specific sections or pages if needed for reference.

*** List Primary Design personnel and their functional capacity for the projects listed.

Attachment "B"

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE

Attachment "A"

PROJECT NAME:		DATE: June 21, 2022		FEIN: 52-2365940					
1. FIRM NAME: Novel Geo-Environmental, LLC		2. HOME OFFICE BUSINESS ADDRESS: 171 Montour Road Moon Township, PA 15108		3. FORMER FIRM NAME: NA					
4. HOME OFFICE TELEPHONE: (412) 722-1970		5. ESTABLISHED: 2002	6. TYPE OWNERSHIP Limited Liability Corporation	6a. WV REGISTERED DBE: YES					
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE: <div style="display: flex; justify-content: space-between;"> <div style="width: 33%;"> 650 Macorkle Ave SW St. Albans, WV 25177 304-201-5180 </div> <div style="width: 66%;"> Office Manager: John E. Nottingham, P.E. No. AML Design Personnel in St. Albans, WV: 6 No. AML Design Personnel in Moon Township, PA : 2 </div> </div>									
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM: Amy L. Veltri - CEO John E. Nottingham - President			8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS						
9. PERSONNEL BY DISCIPLINE (Bold Lettering Indicates Minimum Design Team Members)									
<table style="width: 100%; border: none;"> <tr> <td style="width: 25%; vertical-align: top;"> <u>3</u> ADMINISTRATIVE — ARCHITECTS — BIOLOGIST <u>1</u> CADD OPERATORS — CHEMICAL ENGINEERS <u>5</u> CIVIL ENGINEERS <u>9</u> CONSTRUCTION INSPECTORS — DESIGNERS — DRAFTSMEN </td> <td style="width: 25%; vertical-align: top;"> — ECOLOGISTS — ECONOMISTS — ELECTRICAL ENGINEERS <u>2</u> ENVIRONMENTALISTS — ESTIMATORS <u>2</u> GEOLOGISTS — HISTORIANS — HYDROLOGISTS </td> <td style="width: 25%; vertical-align: top;"> — LANDSCAPE ARCHITECTS — MECHANICAL ENGINEERS — MINING ENGINEERS — PHOTOGRAMMETRISTS — PLANNERS: URBAN/REGIONAL — SANITARY ENGINEERS 2 SOILS ENGINEERS — SPECIFICATION WRITERS </td> <td style="width: 25%; vertical-align: top;"> — STRUCTURAL ENGINEERS — SURVEYORS — TRAFFIC ENGINEERS <u>8</u> DRILLERS & HELPERS <u>4</u> OTHER PERSONNEL <u>35</u> TOTAL PERSONNEL </td> </tr> </table>						<u>3</u> ADMINISTRATIVE — ARCHITECTS — BIOLOGIST <u>1</u> CADD OPERATORS — CHEMICAL ENGINEERS <u>5</u> CIVIL ENGINEERS <u>9</u> CONSTRUCTION INSPECTORS — DESIGNERS — DRAFTSMEN	— ECOLOGISTS — ECONOMISTS — ELECTRICAL ENGINEERS <u>2</u> ENVIRONMENTALISTS — ESTIMATORS <u>2</u> GEOLOGISTS — HISTORIANS — HYDROLOGISTS	— LANDSCAPE ARCHITECTS — MECHANICAL ENGINEERS — MINING ENGINEERS — PHOTOGRAMMETRISTS — PLANNERS: URBAN/REGIONAL — SANITARY ENGINEERS 2 SOILS ENGINEERS — SPECIFICATION WRITERS	— STRUCTURAL ENGINEERS — SURVEYORS — TRAFFIC ENGINEERS <u>8</u> DRILLERS & HELPERS <u>4</u> OTHER PERSONNEL <u>35</u> TOTAL PERSONNEL
<u>3</u> ADMINISTRATIVE — ARCHITECTS — BIOLOGIST <u>1</u> CADD OPERATORS — CHEMICAL ENGINEERS <u>5</u> CIVIL ENGINEERS <u>9</u> CONSTRUCTION INSPECTORS — DESIGNERS — DRAFTSMEN	— ECOLOGISTS — ECONOMISTS — ELECTRICAL ENGINEERS <u>2</u> ENVIRONMENTALISTS — ESTIMATORS <u>2</u> GEOLOGISTS — HISTORIANS — HYDROLOGISTS	— LANDSCAPE ARCHITECTS — MECHANICAL ENGINEERS — MINING ENGINEERS — PHOTOGRAMMETRISTS — PLANNERS: URBAN/REGIONAL — SANITARY ENGINEERS 2 SOILS ENGINEERS — SPECIFICATION WRITERS	— STRUCTURAL ENGINEERS — SURVEYORS — TRAFFIC ENGINEERS <u>8</u> DRILLERS & HELPERS <u>4</u> OTHER PERSONNEL <u>35</u> TOTAL PERSONNEL						
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: <u>4</u> *RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.									
10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE?			NO						

11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Confidential Qualification Questionnaire" for each if copy is not on file with AML.

[illegible]

12. A. Is your firm experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?

NO: Note that Novel Geo-Environmental (NGE) has not performed any AML design work to date, but our WV Office Manager (John E. Nottingham) and project geologist (Chuck Montgomery) have extensive AML experience with their former firm. Additionally, NGE has held contracts with WVDEP-AML for geotechnical drilling for the northern and southern districts of WV and has completed several drilling projects under this contract.

B. Is your firm experienced in Soil Analysis?

YES: NGE specializes in Geotechnical Engineering including foundation investigations, subsurface investigations, cut slope design, fill embankment analysis and design, slope stability analysis, landslide analysis and corrective design, mine subsidence investigations, geologic studies, groundwater seepage analysis, foundation design, retaining wall design, pavement design, subsurface drilling and monitoring well installation. NGE has performed a total of several thousand geotechnical engineering related projects since the company was formed in 2002.

C. Is your firm experienced in hydrology and hydraulics?

NO: While our firm has not performed any hydrology/hydraulics projects to date, our personnel have experience with former employers.

D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?

NO

E. Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)

NO

F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?

NO

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Nottingham, John, E.	12	4	0

Brief Explanation of Responsibilities

Mr. Nottingham was responsible for supervising field and design work for numerous AML related landslide abatement projects for the WVDEP while under the employment of Triad Engineering, Inc. In addition to landslide abatement projects, Mr. Nottingham was involved in subsidence determination investigations and subsidence abatement projects. Mr. Nottingham worked extensively on "emergency" projects which required quick field investigations and corrective designs.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science in Civil Engineering, 1987, WVU, Specialization - Civil and Geotechnical Engineering
Masters of Science in Civil Engineering, 1995, WVU, Specialization - Geotechnical Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineering (ASCE)
West Virginia Chapter of AIA

REGISTRATION (Type, Year, State)

Professional Engineering, 1994, WV
Professional Engineering, 2007, VA
Professional Surveyor, 1996, WV

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Montgomery, Charles, E.	10	4	0

Brief Explanation of Responsibilities

Mr. Montgomery was responsible for coordinating field activities for AML landslide abatement projects for the WVDEP while employed with Triad Engineering, Inc. Mr. Montgomery has also participated in all project phases for other AML work involving subsidence determinations/abatement and impounded mine pools.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, Geology, 1991, Marshall University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Association of Engineering Geologists
Geological Society of America

REGISTRATION (Type, Year, State)

Professional Geologist, 1999, Kentucky

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.) Nottingham, Larry C.	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 15	YEARS OF AML RELATED DESIGN EXPERIENCE: 5	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0

Brief Explanation of Responsibilities

Dr. Nottingham planned and supervised several AML investigation and reclamation projects for WVDEP while employed by Triad Engineering. Projects included burning refuse pile investigations, unstable refuse pile investigations and remedial designs, landslide investigations and remedial designs, subsidence investigations, and underground mine fire investigations.

EDUCATION (Degree, Year, Specialization)
 Bachelor of Science in Civil Engineering, 1965, Civil Engineering, West Virginia Institute of Technology
 Master of Science in Civil Engineering, 1966, Geotechnical Engineering, University of Pittsburgh
 Doctor of Philosophy, 1975, Geotechnical Engineering, University of Florida

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Member, American Society of Civil Engineers Member, National Society of Professional Engineers	REGISTRATION (Type, Year, State) Professional Engineer, 1969, WV Professional Engineer, 1985, KY Professional Engineer, 1985, OH Professional Engineer, 2006, PA
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13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.) Brown, Gene	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 5	YEARS OF AML RELATED DESIGN EXPERIENCE: 5	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0

Brief Explanation of Responsibilities

Mr. Brown was responsible for coordinating field activities for AML landslide abatement projects for the WVDEP while employed with Terradon, Corp. Mr. Brown has also participated in all project phases for other AML work involving subsidence determinations/abatement.

EDUCATION (Degree, Year, Specialization)
 Bachelor of Science in Civil Engineering Technology, 2000, Bluefield State College
 Bachelor of Science in Architectural Engineering Technology, 2000, Bluefield State College

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State) Professional Engineer, 2008, WV Licensed Remediation Specialist (LRS), WV
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14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES

Five rotary track-mounted drill rigs. Drills are equipped with hollow stem augers, split-spoon soil sampling equipment, and rock coring tools.

Portable dynamic cone penetrometer.

Electric concrete coring drill.

Two rollback trucks, one road tractor with trailer and two equipment hauling trailers.

Software includes: Word processing, PCSTABL - Slope Stability Analysis, LPILE Plus 4.0 - Pile Foundation Analysis, PYWALL 2.0 - Retaining Wall Analysis, ReSSA 2.0 - Reinforced Soil Slope Analysis, ReSlope 3.0 - Reinforced Soil Slope Design

Soil Laboratory Equipment: Soil Oven, Scales, Sieves, Liquid and Plastic Limits Machine, Direct Shear Machine, Unconfined Compression Machine, Point Load testing.

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Riggins Run Road Pile Wall, Geotechnical Investigation, Doddridge County, WV	Antero, Denver CO	Perform subsurface investigation, pile wall design and construction drawings.	\$300,000	100
Annual Geotechnical Drilling Contract, West Virginia DOT	West Virginia Department of Transportation	Perform geotechnical (drilling) investigations as directed by WVDOT personnel.	Unknown	70
TOTAL NUMBER OF PROJECTS: 2			TOTAL ESTIMATED CONSTRUCTION COSTS: \$ Unknown	

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
Long Run #3, Geotechnical Investigations, Taylor Co, WV	Determine Site Subsurface Conditions, Provide Remediation Design Recommendations.	WV DEP AML	Current	Unknown	Fee \$63,000
MAJ8 Well Pad, Geotechnical Investigations, Marshall Co, WV	Determine Site Subsurface Conditions, Provide Construction Recommendations	CNX	December, 2022	Unknown	Fee ≈ \$85,000
WVUM CEP Building Geotechnical Investigations, Marion Co, WV	Geotechnical Investigation for New Building Structure	WVUM	May, 2020	Unknown	Fee \$28,000
MSHA MEO Building Geotechnical Investigations, Tridelphia, WV	Determine Site Subsurface Conditions, Provide Foundation Design Recommendations.	MSHA	Current	Unknown	Fee ≈ \$19,000
Col Justice Chambers Bridge, Geotechnical Investigation, Huntington, WV	Determine Site Subsurface Conditions, Provide Foundation Design Recommendations	West Virginia Dept. of Highways, Charleston, WV	Current	Unknown	Fee \$100,000
I-64 Merrits Creek Design, Geotechnical Investigation, Cabell County, WV	Perform subsurface investigation, develop and provide recommendations for bridge foundations and roadway design	West Virginia Dept. of Highways, Charleston, WV	Current	Unknown	Fee ≈ \$340,000

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

[illegible]

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
Gerald R Freeman Bridge, Geotechnical Investigation, Braxton Co, WV	WV Department of Highways Charleston, WV	\$5,000,000	2019	In Process	Mead and Hunt
Parkersburg Flood Wall and Levee, Geotechnical Investigation, Parkersburg, WV	City of Parkersburg	Unknown	2019	No	Mead and Hunt
Runway improvements Geotechnical Investigation, Wood County, WV	Mid-Ohio Valley Regional Airport	Unknown	2019	Yes	Michael Baker International
North Central WV Airport Development, Geotechnical Investigation, Bridgeport, WV	North Central WV Airport Bridgeport, WV	Unknown	2020	In Progress	The Thrasher Group
Water Tanks, Geotechnical Investigation St. Albans, WV	WV American Water Charleston, WV	\$2,000,000	2017	Yes	Chapman Technical Group
Owl Creek Highwall Geotechnical Investigation Monongalia Co, WV	WVDEP	Unknown	2021	No	The Thrasher Group

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program.

20. The foregoing is a statement of facts.

Signature: John E. Nottingham

Title: President

Date: June 21, 2021

Printed Name: John E. Nottingham

NOTE: THIS DOCUMENT WILL BECOME VOID AFTER DECEMBER 31 IN CALENDAR YEAR OF DATE HEREON.

AML and RELATED PROJECT EXPERIENCE MATRIX																								
PROJECT	Exp. Basis C=Corp. P=Personnel *	Additional Info Provided in Section (s) **	PROJECT EXPERIENCE REQUIREMENTS															PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional						
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Nitigation/ Replacement	Construction Inspection/Managem ent	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	John Nottingham	Gene Brown	Noah Stevens	Mike Frame	Chuck Montgomery	Brandon Wallace	
Kempton Refuse Slide	P		x	x					x								x	M	P	P	P	P	P	
Kuhns Run Portals	P		x	x					x									M	P	P	P	P	P	
Long Run #3	P		x	x	x				x								x	M	P	P	P	P	P	
Owl Creek Highwall	P		x						x								x	M	P	P	P	P	P	
Ed Gower Highwall	P		x	x	x				x			x					x	PM	P	P	P	P	P	
Nutter Run Landslide	P		x						x								x	M	P	P	P	P	P	
Isaac Creek Landslide	P		x	x					x								x	M	P	P	P	P	P	
North Matewan Drilling	P		x						x								x		M		P	P	P	
Ridgeway Drive Landslide	P		x						x								x	M	M	P		P	P	
Sauls Run Bennet Slide	P		x						x								x		M			P	P	
Craigmoor Landslide	P		x						x								x		M		P	P	P	
Crooked Run	P		x						x								x		M			P	P	
Elkhurst Landslide	P		x						x								x		M			P	P	

* List whether project experience is corporate or personnel based or both.

** Use this area to provide specific sections or pages if needed for reference.

*** List Primary Design personnel and their functional capacity for the projects listed.