



September 11, 2008

Mr. Chuck Bowman  
Purchasing Division  
P.O. Box 50130  
2019 Washington Street East  
Charleston, West Virginia 25305-0130

**Reference: Expression of Interest  
A&E Services for Island Creek #18 Mine Complex  
DEP 14390**

Dear Mr. Bowman:

Please accept this letter and the enclosed Statement of Qualifications as Randolph Engineering's expression of interest to provide professional consulting engineering services for the design of stabilization measures for the Island Creek #18 Mine Complex in Logan County, West Virginia.

Randolph Engineering has successfully completed numerous projects for the WVDOT, U.S. General Services Administration as well as our private and municipal clients with a focus on quality, cost and schedule. We have extensive experience in earthmoving, storm water analysis, site development and construction administration projects throughout West Virginia. This experience gives us a unique insight into a project of this scope and complexity.

We have developed a reputation for providing our clients with innovative solutions for unique and challenging projects. From fast track schedules and restrictive budgets to complex engineering problems we strive to deliver the project in a manner that exceeds our clients' expectations.

Currently our overall workload is light thus providing us a tremendous opportunity to provide professional services to successfully complete this project.

We appreciate your consideration of our qualifications as a candidate for selection to provide consulting engineering services and look forward further outlining our qualifications during the interview process.

Sincerely Yours,  
Randolph Engineering

A handwritten signature in cursive script that reads 'Roger K. Randolph'.

Roger K. Randolph, P.E., P.L.S.  
Enclosure

RECEIVED

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PURCHASING DIVISION  
STATE OF WV

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**section 1**

**PROPOSAL DOCUMENTS**

## TITLE PAGE

**RFP SUBJECT:** The design and contract administration for the stabilization and reclamation and storm water management for the Island Creek #18 Mine Complex in Logan County, WV.

**RFP NUMBER:** DEP14390

**BIDDER NAME:** Randolph Engineering Co., Inc.

**BIDDER ADDRESS:** 4414 Teays Valley Road  
Post Office Box 346  
Scott Depot, WV 25560

**BIDDER PHONE NO.:** (304) 757-9217

**BIDDER CONTACT:** Roger K. Randolph, P.E.

  
Signature

**DATE:** September 23, 2008



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

# Request for Quotation

RFQ NUMBER
DEP14390

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
CHUCK BOWMAN 804-558-2157

RFQ COPY  
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

ENVIRONMENTAL PROTECTION  
 DEPARTMENT OF  
 OFFICE OF AML&R  
 601 57TH STREET SE  
 CHARLESTON, WV  
 25304 304-926-0499

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
08/21/2008				

BID OPENING DATE: 09/23/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-29		
ISLAND CREEK #18 MINE COMPLEX DESIGN						
EXPRESSION OF INTEREST						
<p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES AT THE ISLAND CREEK #18 MINE COMPLEX PROJECT IN LOGAN CO, WEST VIRGINIA, PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID AND IS TERMINATED WITHOUT FURTHER ORDER.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Rogun Pandoth</i>	TELEPHONE 757-9217	DATE 9/23/08
TITLE PRESIDENT	FEIN 550588736	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

## **RANDOLPH ENGINEERING CONTACT INDIVIDUALS\***

Roger K. Randolph, P.E., President  
P. O. Box 346  
Scott Depot, WV 25560  
(304) 757-9217

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Aaron C. Randolph, P.E., Secretary  
P. O. Box 346  
Scott Depot, WV 25560  
(304) 757-9217

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Vendor Registration No. 55-058-8736

\*Persons authorized to conduct negotiations and contractually sign for Randolph Engineering Co., Inc.

STATE OF WEST VIRGINIA  
Purchasing Division**PURCHASING AFFIDAVIT****VENDOR OWING A DEBT TO THE STATE:**

*West Virginia Code §5A-3-10a* provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

**PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:**

*West Virginia Code §21-1D-5* provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

**ANTITRUST:**

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

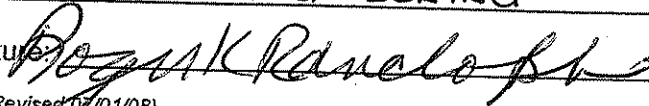
**LICENSING:**

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

**CONFIDENTIALITY:**

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit [www.state.wv.us/admin/purchase/privacy](http://www.state.wv.us/admin/purchase/privacy) for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and is in compliance with the requirements as stated.

Vendor's Name: RANDOLPH ENGINEERINGAuthorized Signature: Date: 9/23/08

**section 2**

**TECHNICAL PROPOSAL**



## **Introduction to Randolph Engineering Co., Inc.**

Randolph Engineering is a multi-disciplined consulting engineering firm in Teays Valley, West Virginia. The company recently celebrated 30 years of providing innovative engineering solutions to a variety of clients ranging from municipalities and government agencies to private land developers.

Randolph's success is the result of outstanding client service and satisfaction.

### **Our history**

The company was founded by Roger and Grace Randolph in 1976, and from a modest beginning has grown into an award-winning regional engineering firm. Our attention to detail and commitment to client satisfaction have generated repeat and referral clients, some of whom have been with us since our inception.

Roger Randolph maintains an active role as project manager on a variety of municipal, structural and land development projects. His wealth of knowledge and experience is a valuable asset to the company's next generation of engineers and designers.

### **Building on success**

Randolph Engineering is situated in one of West Virginia's fastest-growing areas – a location that has afforded the opportunity to diversify into a full-service engineering firm. We offer an array of services including transportation engineering; municipal engineering; land development and surveying; structural engineering; building engineering; and construction engineering.

One of our keys to success is the reliability and stability provided by our employees' loyalty and longevity. Many of our staff members have worked with Randolph for more than 25 years, with a number of others approaching that milestone.

### **Our projects**

Our variety of clients and engineering projects creates interesting and unique challenges for the engineers and designers at Randolph Engineering. Some of our notable projects include the award-winning Jackson's Mill Bridge for the West Virginia Division of Highways; site improvements and plant expansions for Toyota Motor Manufacturing; complete renovation and expansion of the City of Hurricane wastewater treatment plant; site designs for some of the largest retailers in the United States; and site designs for large, single- and multi-family residential subdivisions, townhouses and apartment complexes, including a 250-unit gated community near Charleston, W.Va.

### **Looking to the future**

Successful projects such as these and an unending commitment to client satisfaction paint a bright picture for our future. We look forward to overcoming even more engineering challenges and continued growth for the next 30 years.

## **General Experience and Capabilities**

While we have no direct AML project experience, we have successfully completed projects for local municipalities as well as private clients that encompass most of the tasks required for this work. Two of our most recent projects include the Storm Water Analysis for Toyota Motor Manufacturing and the Town of Buffalo Storm Water Outfall project. Both of these projects posed significant challenges for the design team including flat terrain, archaeological sites, erosion control and restrictive right-of-way.

In addition to these two notable projects, we have more than 30 years of experience in storm water management, earthmoving, permitting and domestic utility design for various subdivisions, commercial and industrial sites and West Virginia Department of Transportation.

The staff at Randolph Engineering who are assigned to provide the engineering design services for this project include three (3) professional engineers registered in West Virginia, two (2) professional surveyors registered in West Virginia as well as various senior level designers, CADD technicians and survey personnel.

Key staff members are listed as follows:

Roger K. Randolph, P.E., P.L.S.	(West Virginia, Kentucky, Ohio, Indiana, Illinois)
Aaron C. Randolph, P.E., S.I.	(West Virginia)
Jacob White, P.E.	(West Virginia, Virginia)
Donald Hayes, P.L.S.	(West Virginia)
Larry Stricker, Designer	
Max Dent, Designer	

Resumes for these team members can be found in Section 3 of this prospectus.

## **Relevant Project Experience**

Some of the notable projects designed recently by Randolph Engineering include:

- Town of Buffalo Storm Water Outfall Project
- Toyota Motor Manufacturing Storm Water Analysis
- Poplar Fork Flood Mitigation Project
- Finney Branch Spillway Project

Project descriptions of these projects can be found in Section 2 of this prospectus.

## **Surveying and Mapping**

Randolph Engineering maintains a fully equipped survey crew managed by a professional surveyor and supported by survey design staff. We utilize the latest in surveying technology including GPS surveying equipment. We generate our own contoured mapping for small to intermediate projects and utilize an aerial mapping sub-consultant if the project size or economics dictate that we do so.

**Design Engineering and Contract Document Preparation**

Randolph Engineering maintains and utilizes the latest versions of Autocad and Microstation running on high-end computers linked to a central server for plan development. We utilize high speed printers and large format plotters for document output.

**Office Location**

All work for this project will be performed from our office located in Scott Depot, West Virginia.

**Cost Accounting Information Statement**

Randolph Engineering maintains a cost accounting system that is capable of segregating and identifying accumulating costs for each project.

**Subconsultants**

Novel Geo-Environmental, PLLC has agreed to be a sub-consultant for this project. They will provide soil analysis, environmental analysis and geotechnical engineering for this project. A company profile, CCQQ and employee resumes can be found in Section 5 of this prospectus.

**Qualifications of Personnel**

Randolph Engineering's most valuable resource is its people. For more than 30 years our talented staff has provided engineering solutions to some of our client's most challenging projects. One key to our success has been reliable and consistent staffing. Key members of our staff have more than 27 years of experience with the company. This along with several members with 11 years of experience and others approaching this milestone affords our clients a sense of stability.

Our engineers are well versed in storm water design requirements, earthmoving and permitting as well regulatory agency rules and regulations. Additionally, we encourage our engineers and design staff to further their education and experience through the attendance of design seminars, product seminars and other outside training opportunities.

**Corporate Specialized Experience**

As stated previously, Randolph Engineering has extensive experience with projects of similar size, scope and complexity. We have worked with local developers, municipalities, other engineering companies as well as the West Virginia Department of Transportation on numerous storm water management, earthmoving and permitting projects. This wide range of experience gives us a unique insight into this type of project.

## **Management Plan**

The management plan and staffing responsibilities will be as follows:

- **Project Manager, Roger K. Randolph, P.E., P.L.S.**  
Mr. Randolph will serve as project manager for this project and will be responsible for the following aspects of the project:
  - Client Liaison
  - Resource Allocation
  - Project Supervision
  - Progress Reports
  - Quality Assurance
  - Project Schedule
  - Project Budget
  
- **Design Engineers, Aaron C. Randolph, P.E., Jacob C. White, P.E.**  
Mr. Randolph and Mr. White will serve as project design engineers and will be responsible for the following aspects of the project:
  - Civil Engineering
  - Hydraulic Study and Analysis
  - Permitting
  - Erosion Control Design
  - Planning
  - Staff Coordination
  - Plan Review and QA/QC
  
- **Designers, Larry Stricker, Max Dent,**  
Mr. Stricker and Mr. Dent will serve as project CADD designers and will be responsible for the following aspects of the project:
  - Plan Development
  - Project Specifications
  - Quantities
  - Cost Estimates
  - Printing
  
- **Surveying, Don Hayes, P.L.S., Stacey Call, S.I.**  
Mr. Hayes and Mr. Call will serve as project surveyors and will be responsible for the following aspects of the project:
  - Survey Management
  - Topographic Mapping
  - Construction Stakeout
  - Property Research

## **Resource Allocation**

Randolph Engineering, as with all of our clients, is committed to providing professional engineering services to the state of West Virginia. We will commit the required staff, equipment and materials to accomplish the goals set forth for this project in a timely and cost effective manner.

## **Schedule and Budget Control**

We have a long history of completing projects within budget and time constraints. With a large client base of private clients, schedule, budgets and fees can quickly become make-or-break issues with regard to the feasibility of a project. Our project managers are experienced and well versed in meeting project schedules with budget constraints in mind. Additionally, Randolph Engineering is a West Virginia licensed contractor. This gives us a unique insight into potential economies within a project that may benefit our clients.

**section 3**

**REPRESENTATIVE PROJECTS**

# project

## Sycamore Landfill

Putnam County, West Virginia



### Client

City of Hurricane  
3255 Teays Valley Road  
Hurricane, West Virginia 25526

### Contact

Mr. Ben Newhouse, City Manager  
304.562.5896

### Nature of Work

The City of Hurricane in conjunction with Sycamore Landfill contracted with Randolph Engineering to design a leachate line from the landfill to the City's wastewater treatment plant located adjacent to Interstate 64 in Putnam County, West Virginia.

The project scope included line routing and location, route surveying, lift station design, cost estimating, right-of-way easements and construction administration for a 2 mile route along state highways and through private properties.

Additional responsibilities involved the coordination with various review and funding agencies as well as elected officials and the general public.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designers – Donald R. Hayes, P.L.S. & Stacey Call

# project

## Finney Branch Spillway

Kanawha County, West Virginia



### Client

Hatfield Enterprises, Inc.  
400 North Poplar Fork Road  
Hurricane, West Virginia 25526

### Contact

Mr. Robert Hatfield  
304.552.1782

### Nature of Work

Project included hydraulic analysis, channel design, spillway design, and permitting for an emergency spillway along Finney Branch in Dunbar, WV.

The project consisted of over 800' of channel design using the Army Corps of Engineers HEC-RAS stream modeling program. Scour and erosion countermeasures, designed and incorporated into the plans included rock rip-rap and various matting and vegetative linings. Regulatory agencies designated to oversee this project included the US Army Corp of Engineers and the West Virginia Department of Environmental Protection.

Surveying services included topographic field mapping for design purposes and construction layout.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Design Engineer – Jacob C. White, P.E.



# project

## Beaver Creek Bridges

Nicholas County, West Virginia



### Client

West Virginia Department of Transportation  
Division of Highways  
1900 Kanawha Boulevard, East  
Charleston, West Virginia, 25305

### Contact

Mr. James E. Sothen, Director  
Engineering Division  
304.558.0191

### Nature of Work

As part of its ongoing bridge replacement program, the West Virginia Department of Transportation contracted with Randolph Engineering to design a replacement bridge and associated roadway widening for the existing bridges spanning Big Beaver and Little Beaver Creeks near the town of Craigsville, WV. The existing bridges were rated structurally deficient due to significant deterioration to the deck and other key components.

Founded on fully integral abutments both bridges were single span, spread box beam structures with composite reinforced concrete decks. The bridges are located in a tangent section of roadway and are on a skewed alignment.

Due the close proximity of Little Beaver Creek to the highway we relocated approximately 750 ft. of the existing channel utilizing natural stream design criteria and mitigated 1.4 acres of wetlands.

### Key Personnel

Project Manager – Aaron C. Randolph, P.E.

# project

## Vienna – Water System Model

Wood County, West Virginia



### Client

Woolpert Consultants  
St. Albans, West Virginia

### Contact

Mr. Paul Amburgey, P.E.  
304.722.1550

### Nature of Work

Project involved the engineering study and development of a Cybernet Water Model for the existing and proposed expansion of the water distribution system of the city of Vienna, West Virginia. Working as sub-consultant for a nationally recognized engineering firm, we developed a model for the existing system that included the Vienna Mall area to be used to further study impacts of proposed and future developments within the system and to bring the system back to pre-contamination levels of service.

The model encompassed an existing gravity system that dates to the 1930's consisting of 6 water storage tanks with a total of 1.6 million gallons of storage, 14 pump stations and 12 water wells as well as distribution lines serving 5500 customers.

Responsibilities included obtaining current water consumption rates, pressure data at key locations, verify piping network and determining water distribution operational characteristics.

The results were incorporated into the current expansion design and allowed the City to plan for future expansion to developing areas within the City.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.

# project

## South Putnam PSD – Morrison Hollow Extension

Putnam County, West Virginia



### Client

South Putnam PSD  
Poplar Fork Road  
Scott Depot, West Virginia 25560

### Contact

Mr. Jason Henderson  
304.757.6551

### Nature of Work

In the early fall of 2005, South Putnam P.S.D. approached Randolph Engineering with a fast track project to extend water service to the Morrison Hollow and Ranch Lake Estates Subdivision. Due to the tight schedule, terrain and full foliage in the wooded areas of the project site the construction documents were developed on aerial photographs and printed in full color. This allowed us to save time that would have been consumed by traditional surveying. To further save time and expense, South Putnam P.S.D. utilized their own maintenance and construction crews to construct and install the water lines. The project was completed quickly and provided clean drinking water and fire service to more than 28 existing businesses and residences as well as 30 additional subdivision lots.

The project included the design and preparation of construction documents, specifications and construction administration services for a system upgrade that consisted of more than 5700 L.F. of 8" diameter water line and 3000 L.F. of 6" diameter water line as well as fire hydrants, valves, service line installation and 5 creek crossings.

Additional responsibilities included right-of-way research and right-of-way easements drawings and coordination with existing utility companies and various review and permitting agencies.

Surveying services included tie-down survey as well as construction stakeout.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designer – Max Dent

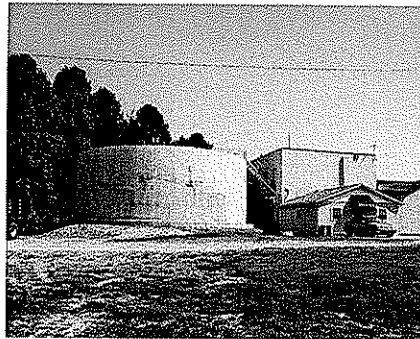
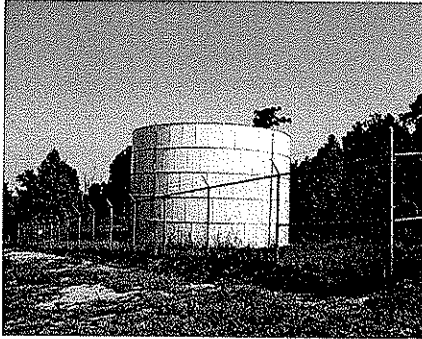


4414 Teays Valley Rd.  
Scott Depot, WV 25560  
p. 304.757.9217 f. 304.757.1029

# project

## City of Hurricane Water System Upgrades

Putnam County, West Virginia



### Client

City of Hurricane  
3255 Teays Valley Road  
Hurricane, West Virginia 25526

### Contact

Mr. Ben Newhouse, City Manager  
304.562.5896

### Nature of Work

In an effort to keep up with the current and anticipated future growth, the City of Hurricane contracted with Randolph Engineering to provide renovation and upgrade design services for their existing water treatment plant and various system upgrades. This upgrade included an analysis of the existing facility building and foundations as well as the addition of a new lab, new filter and the development of both steel and concrete alternates for a new 50' diameter clarifier.

### Other plant and system upgrades have included:

- Design of various walkways and platforms as well as multiple piping configurations within the plant.
- Design, Surveying and Construction Administration services for system upgrades consisting of more than 17,000 L.F. of 12" diameter water line and 4,700 L.F. of 10" diameter water line as well as the design of a 1,000,000 gallon water storage tank including the foundations.
- Preliminary engineering study for the development of a new water storage impoundment and more than 6000' of raw water line.

Surveying services for these projects have included topographic field mapping for design purposes and construction layout.

Additional responsibilities involved the coordination with various review, permitting and funding agencies as well as elected officials and the general public.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designer – Max Dent



4414 Teays Valley Rd.  
Scott Depot, WV 25560  
p. 304.757.9217 f. 304.757.1029

# project

## City of Hurricane Water Impoundment

Putnam County, West Virginia



### Client

City of Hurricane  
3255 Teays Valley Road  
Hurricane, West Virginia 25526

### Contact

Mr. Ben Newhouse, City Manager  
304.562.5896

### Nature of Work

In an effort to keep up with the current and anticipated future growth, the City of Hurricane contracted with Randolph Engineering to study and recommend a solution to the extreme silt build-up at their water storage reservoir.

This project involved the study, design and contract drawings for dredging and disposing of approximately 110,000 cubic yards of sediment from the City's water reservoir. Preliminary responsibilities included the study of multiple alternatives for the disposal of the waste sediment as well as coordinating with various regulatory agencies. Close coordination with agencies including US Army Corp of Engineers, US Fish and Wildlife, WVDEP and WVDNR was critical to the success of this project. Requirements for stream and wetland mitigation, property acquisition, leasing versus buying the dredge equipment and impacts to the surrounding city park were all factors that were studied during the preliminary phase of this project.

The plan that was chosen and developed for construction involved buying the dredge equipment to be used by city personnel and the construction of a two phase detention pond that allowed for the sediment to dry before being trucked off site. This plan had the advantages of allowing maintenance operations to continue at intervals that best serve the city's long term plan for the reservoir.

Surveying services for these projects have included topographic field mapping for design purposes and construction layout.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designer – Max Dent



4414 Teays Valley Rd.  
Scott Depot, WV 25560  
p. 304.757.9217 f. 304.757.1029

# project

## Toyota of West Virginia – Storm Water Analysis

Putnam County, West Virginia



### Client

Toyota Motor Manufacturing, WV, Inc  
1 Sugar Maple Lane  
Buffalo, West Virginia 25033

### Contact

Mr. Lyndon Jones  
304.937.7299

### Nature of Work

The goal of this project was to develop a baseline storm water analysis that would encompass the developed areas of the site including various plant expansions to be used in planning future plant expansions.

Project included an overall hydraulic study and analysis of the existing storm water system at the plant to determine the capacity for future expansion of the plant. Additionally, the project included an as-built field survey of the existing system and through the use of various stand-alone expansion drawings developed a master set of storm water drawings.

Upon completion of this phase the scope of the project was expanded to include the design for increasing the capacity of the existing storm water detention pond to accommodate future plant expansion. A new detention pond was designed adjacent to the existing pond and provided an additional 392,000 C.F. of storage.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Design Engineer – Jacob C. White, P.E.

# project

## Poplar Fork Storm Water Management

Putnam County, West Virginia



### Client

Putnam County Commission  
400 North Poplar Fork Road  
Hurricane, West Virginia 25526

### Contact

Mr. Jim Withrow  
304.586.0201

### Nature of Work

Project included hydraulic analysis, culvert design, channel design, permitting as well as construction administration and inspection for a storm water management project that focused on alleviating flooding along Poplar Fork and tributaries.

The project consisted of over 3300' of channel design, placement of numerous culverts under local roads as well as residential driveways. Scour and erosion countermeasures, designed and incorporated into the plans included rock rip-rap and grouted rip-rap. Regulatory agencies designated to oversee this project included the US Army Corp of Engineers and the West Virginia Department of Environmental Protection.

Surveying services included topographic field mapping for design purposes and construction layout.

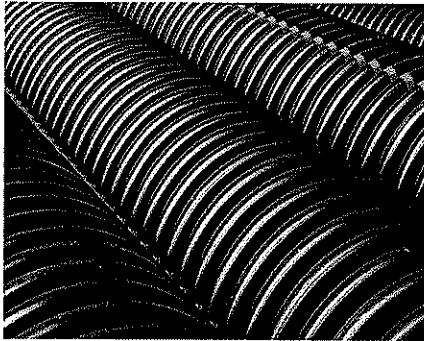
### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designer – Donald R. Hayes, P.L.S.

# project

## Town of Buffalo 60" Storm Water Outfall

Putnam County, West Virginia



### Client

Town of Buffalo  
Buffalo, West Virginia

### Contact

Mr. Kenneth Tucker, Mayor  
304.937.2041

### Nature of Work

The goal of this project was to develop a storm water outfall to the Kanawha River required by an expansion project for the Toyota Motor Manufacturing Plant.

Project included designing a 1600 L.F. storm water outfall consisting of 60" HDPE smooth wall pipe. The outfall included seven 8' diameter manhole junction boxes as well as a 60" diameter reinforced concrete pipe bored and jacked under WV Route 62. Additional features included a pre-cast headwall founded on helical anchors and 1400 S.F. of articulated concrete block erosion matting.

We performed a topographical survey to be used for design and provided construction stakeout and construction inspection services. Permitting requirements included an Archeological Study, WV DEP NPDES permit, and WVDOH Highway Encroachment permit.

### Key Personnel

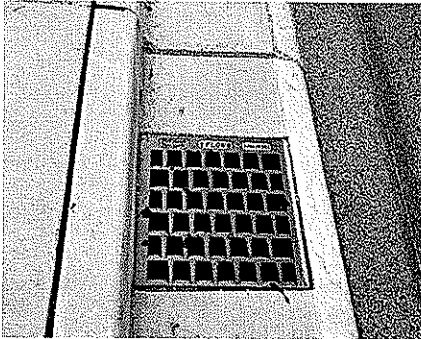
Project Manager – Roger K. Randolph, P.E.  
Design Engineer – Jacob C. White, P.E.



# project

## Town of Bancroft – Storm Water Management

Putnam County, West Virginia



### Client

Town of Bancroft  
P.O. Box 58  
Bancroft, West Virginia 25011

### Contact

Ms. Joyce Abbott, Mayor  
304.586.3559

### Nature of Work

Project included hydraulic analysis, culvert design, permitting as well as construction administration and inspection for an urban storm water management project that was designed utilizing an enclosed system of inlets and pipe culverts.

The project consisted of a system of pipe culverts and concrete inlets that were placed in and around various residence and business properties. The project was undertaken due to the health and safety hazards associated with standing water that, due to very flat terrain, would not drain naturally. Regulatory agencies designated to oversee this project included the West Virginia Department of Health and the West Virginia Department of Environmental Protection.

Surveying services included topographic field mapping for design purposes and construction layout.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designer – Donald R. Hayes, P.L.S.

# project

## The Ridges at Rabel Subdivision

Kanawha County, West Virginia



### Client

AB Contracting, Inc.  
5521 Ohio River Road  
Point Pleasant, West Virginia, 25550

### Contact

Mr. Allen Bell  
304.546.5955

### Nature of Work

The project involved the study, design and preparation of contract documents for a 194 unit gated community to be constructed on a 152 acre parcel.

Site design responsibilities included subdivision lot layout, grading, interior roadway design, pavement design, well as the design of the storm water system and approximately one-half mile of two-lane access road. Included in the access road design included the design of a prefabricated two-lane arch structure to span Alum Creek.

Utility design included 3 miles of sanitary force main and 2.3 miles of gravity sewer lines as well as twin 45,000 GPD packaged treatment plants. The water system consisted of 2.4 miles of 8", 6" and 2" water lines including a pump station and a 110,000 gal storage tank.

Additional design responsibilities included obtaining all permits including N.P.D.E.S. permitting for the site work as well U.S. Army Corp of Engineer permitting of the creek crossing and WV Health Department and Kanawha County Planning Commission permits.

Surveying services included topographic mapping for design purposes, survey plat development and construction stakeout.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Design Engineer – Jacob C. White, P.E.  
Designer – Donald R. Hayes, P.L.S.

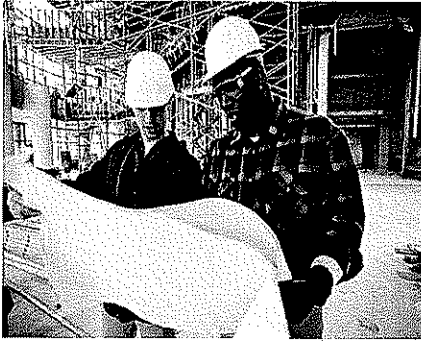


4414 Teays Valley Rd.  
Scott Depot, WV 25560  
p. 304.757.9217 f. 304.757.1029

# project

## G&G Builders, Inc. – Massey Headquarters Site

Boone County, West Virginia



### Client

G&G Builders, Inc.  
500 Corporate Centre Drive  
Scott Depot, West Virginia 25560

### Contact

Mr. Gary Young  
President  
304.757.9196

### Nature of Work

This project involved the study, design and preparation of contract plans and related documents for the construction of a new corporate headquarter office complex located along US Route 119 in Boone County, West Virginia.

The project scope included the design of an approximately 4 acre site that overlooks US Route 119 in Boone County and included preliminary and final grading plans, storm water design including detention, utility design within the site as well as a package treatment plant and forcemain effluent discharge line. Additional responsibilities included the design of a new entrance and turn lane on US Route 119 and an access road into the site. The site design included final paving and perking design, a helipad, decorative pond with fountain, security bollard system, walking track and secondary service road design.

Surveying services included additional mapping control and construction layout.

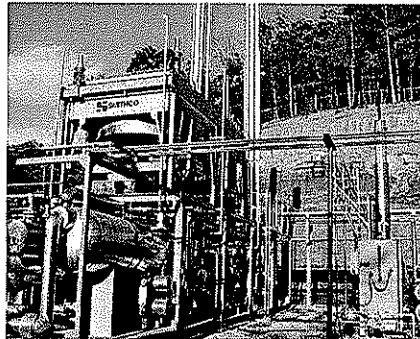
### Key Personnel

Project Manager – Jacob C. White, P.E.

# project

## Hurricane Natural Gas Processing Plant

Putnam County, West Virginia



### Client

Elkhorn Field Services, Inc  
1370 Washington Pike  
4<sup>th</sup> Floor  
Bridgeville, PA 15017-2839

### Contact

Mr. Jim Kean, Manager Engineering  
412.220.4571

### Nature of Work

Elkhorn Field Services, Inc., a leader in natural gas production, contracted with Randolph Engineering to provide surveying, site design, site permitting, and construction stake out for a natural gas processing plant located in Putnam County, West Virginia.

The Hurricane natural gas processing plant and site was designed and oriented to produce three product streams: purified natural gas which is compressed onsite and delivered by pipeline to the Columbia Gas pipeline system, commercial grade liquid propane and a liquid butane and heavier hydrocarbon stream with the propane and butane streams trucked to local markets.

### Key Personnel

Project Manager – Jacob C. White, P.E.

# project

## Castlenock Subdivision

Putnam County, West Virginia



### Client

DARR Incorporated  
4414 Teays Valley Road  
Scott Depot, West Virginia, 25560

### Contact

Mr. Ron Hayes  
304.768.8450

### Nature of Work

The project involved the study, design and preparation of contract documents for a 214 lot subdivision to be constructed on a 142 acre parcel located in Teays Valley, West Virginia.

Site design responsibilities included subdivision lot layout, grading, interior roadway design, pavement design, as well as the design of the storm water system including detention. Utility design included water distribution, sanitary sewer design and coordination with local electric, telephone and gas companies.

Additional design responsibilities included obtaining all permits including N.P.D.E.S. permitting for the site work as well U.S. Army Corp of Engineer permits and WV Health Department and Putnam County Planning Commission permits.

Surveying services included topographic mapping for design purposes, survey plat development and construction stakeout.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designer – Donald R. Hayes, P.L.S.

**section 4**

**PERSONNEL RESUMES**

# résumé



**Roger K. Randolph, P.E., P.L.S.**

Design Engineer/Project Manager

## **Experience and Qualifications:**

Roger is an accomplished design engineer with more than 40 years of experience for a variety of civil, municipal, land development, structural and construction projects. His versatility, experience and wealth of knowledge provide valuable insight into possible pitfalls that may affect the success of any project. He is responsible for project management and design as well as leadership and mentoring of younger engineers on many projects in a range of disciplines.

His primary responsibilities include:

- Project Management
- Land Development Engineering
- Structural Engineering
- Municipal Engineering

## **Representative Project Experience:**

- City of Hurricane Wastewater Treatment Plant Upgrade
- Charleston Town Center Parking Structure Inspections
- City of Hurricane Raw Water Impoundment Analysis
- Union Carbide Building 14 Structural and Foundation Design
- FAA Control Metering Building - Colorado
- Rhone-Poulenc Process Gas Collection Facility Structural Design
- City of Hurricane Water Treatment Plant Upgrades
- Sycamore Landfill Leachate Line Design
- Massey Coal Services Headquarters Wastewater Treatment Plant
- Parkline Manufacturing Facility Building and Site Design
- Central Distributing Warehouse and Office Facility Building and Site Design
- City of Vienna, WV Water Distribution System Modeling
- Poplar Fork Storm Water Analysis and Flood Mitigation
- City of Eleanor, WV Industrial Park Site Design
- Hobet Mining Warehouse and Office Facility Building Design
- Finney Branch Spillway Design and Analysis
- Buffalo Storm Water Outfall
- Bancroft Storm Water Management

## **Education:**

B.S.C.E., Ohio University, 1967

## **Registration:**

P.E. – West Virginia, OH, KY, IN & IL

P.L.S. – West Virginia

## **Professional Societies:**

American Society of Civil Engineers

National Society of Professional Engineers



# résumé



**Jacob C. White, P.E.**

**Design Engineer/Project Manager**

## **Experience and Qualifications:**

Jacob is an experienced civil engineer with a focus on land development and highway projects with state and local municipalities as well as private developers in West Virginia and Virginia. His experience ranges from residential, commercial and industrial site development projects to large highway design projects. He is responsible for engineering, hydraulic analysis and permitting for all land development and highway projects.

His primary responsibilities include:

- Project Management
- Highway Engineering
- Land Development Engineering
- Structural Engineering
- Hydraulic Analysis - Permitting

## **Representative Project Experience:**

- Culloden Bridge over CSX Railroad
- Massey Coal Services Headquarters Site Design
- WV Self Storage Hydraulic Analysis
- Augusta Engineering Floodplain Study
- Raceland High School Gymnasium Structural Design
- Hurricane Raw Water Impoundment Analysis & Permitting
- Blennerhassett Island Bridge over Ohio River – Hydraulic Analysis
- Elkhorn Field Services Natural Gas Production Site and Permitting
- Floyd County, KY Health Department Office Building Structural Design
- Castlenock Ridge Subdivision Storm Water Management
- Copart, Inc. Hurricane Facility Site and Permitting Design
- FedEx Distribution Center Storm Water Management
- Toyota Motor Manufacturing of WV – Storm Water Analysis
- Abingdon, VA Federal Courthouse Perimeter Security
- Kanawha Valley Fine Jewelry Site and Permitting Design
- Upton Construction Company – Mobile Home Park Site and Permitting Design
- WVU Ruby Memorial Hospital Expansion Structural Analysis

## **Education:**

B.S.C.E., West Virginia Institute of Technology, 1997

## **Registration:**

P.E. – West Virginia, Virginia

## **Certification:**

N.H.I. – Bridge Inspection Team Leader

## **Professional Societies:**

American Society of Civil Engineers



# résumé



**Donald R. Hayes, P.L.S**

**Surveyor/Project Manager**

## **Experience and Qualifications:**

Don is an experienced land surveyor with a focus on land development and municipal projects with local communities as well as private developers in West Virginia. His experience ranges from property surveys to residential, commercial and industrial site and utility design. He is responsible for the management of our surveying department as well as various development projects.

His primary responsibilities include:

- Project Management
- Surveying
- Land Development
- Construction Administration & Observation

## **Representative Project Experience:**

- Castlenock Ridge Subdivision Design & Administration
- The Ridges Gated Community Design
- Toyota Engine Plant Facility Storm Water As-Built Survey
- Putnam County Parks & Recreation – Valley Park Expansion
- Bloomingdale Subdivision Design
- Pray Construction – McJunkin Warehouse Expansion Site Design
- City of Hurricane – Tackett's Branch Sewer Line Extension
- Massey Coal Services Headquarters Site Surveying
- Sable Point Townhouse Complex Site Design
- Rite Aid Corporation Site Designs (40)
- Westover Estates Subdivision Site Design
- Buckeye Community Hope Foundation ALTA Surveys (10)
- Standard Foods Facility Site Design
- Liberty Square Site Surveys and Permitting
- Cartee Land Development Company Site Design
- Dismas Charities, Inc Site Design
- WV Capitol Complex As-Built Survey
- Glen Oaks Subdivision Design
- Tri-State Hotels – Holiday Inn Express Site Design

## **Education:**

A.S. West Virginia Institute of Technology, 1971

## **Registration:**

P.L.S. – West Virginia

## **Professional Societies:**

West Virginia Society of Land Surveyors

# résumé



**Aaron C. Randolph, P.E.**

Design Engineer/Project Manager

## Experience and Qualifications:

Aaron is an experienced civil engineer with a focus on bridge, structural and construction engineering projects with transportation agencies in West Virginia, Kentucky, Ohio and Alabama. His experience has encompassed short to medium length bridge design, two-lane highway design, four lane highway design as well as multi-story building design, foundation design and construction engineering. He is responsible for all bridge, structure and building design projects for various state and local agencies as well as private developers.

His primary responsibilities include:

- Project Management
- Bridge Engineering
- Structural Engineering and Inspection
- Construction Engineering

## Representative Project Experience:

- Teays River Construction Company – Construction Engineering/Value Engineering
- Augusta Engineering Structural Foundations
- Mountain State University Health Building Structural and Foundations
- Ahern and Associates – Construction/Value Engineering
- Little General Store Headquarters Structural and Foundations
- Marshall University Retaining Walls
- Sleep Inn Motel Structural and Foundations
- US Route 119 Reinforced Concrete Box Culvert Designs
- WVDOT District 2 Maintenance Facility Structural and Foundations
- Pathways Office Building Structural and Foundations – KY
- Toyota Motor Manufacturing of WV – Building and Foundations
- US Route 60 – Reinforced Concrete Box Culvert Design
- Peerless Brick and Block Company – Retaining Walls
- FedEx Distribution Facility Structural and Foundations
- Berkeley County P.S.D. Wastewater Treatment Plant Structural Design
- Vinton Ohio Wastewater Treatment Plant Structural Design
- Tri-State Hotels – Holiday Inn Express Retaining Walls

## Education:

B.S.C.E., West Virginia Institute of Technology, 1992

## Registration:

P.E. – West Virginia

## Certification:

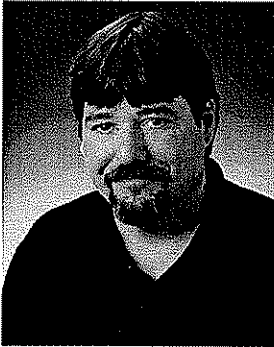
N.H.I. – Bridge Inspection Team Leader

## Professional Societies:

American Society of Civil Engineers  
(Former President of WV Section)



# résumé



**Stacey H. Call, S.I.T.**

Sr. Survey Technician

## **Experience and Qualifications:**

Stacey is an experienced survey technician and designer for various civil engineering projects. His experience has encompassed site development and municipal design as well as boundary surveys and construction stakeout. He is responsible for site layout, coordinating field crews, data reduction and mapping generation for all design projects.

His primary responsibilities include:

- Survey Coordination
- Topographic Mapping
- Site Development
- Construction Stakeout

## **Representative Project Experience:**

- Eagleview Subdivision Design
- Sycamore Landfill Leachate Line Design
- City of Hurricane Raw Water Impoundment Mapping
- The Ridges Residential Development Phase II Mapping & Design
- Emerald Fields Subdivision Design
- Buckeye Community Hope Foundation ALTA Surveys (10)
- Friendship Way Subdivision Design
- Massey Coal Services Headquarters Construction Stakeout
- Wood Ridge Estates Subdivision Design
- Woods & Irons Subdivision Design
- Mill Creek Subdivision Design
- Autozone Store Site Designs (2)
- Yeager Airport Surveys and Construction Layout
- Wendy's Restaurant Site Design
- WVDOH - Coalfields Expressway Construction Stakeout
- WVDOH - Corridor D Highway Construction Stakeout
- WVDOH - WV Route 10 Construction Stakeout
- Tri-State Hotels - Holliday Inn Express Site Design

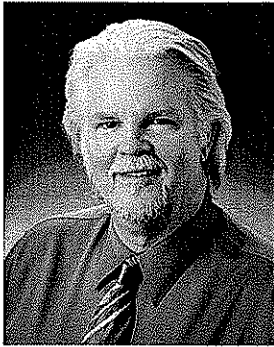
## **Education:**

Hurricane High School, 1987

## **Registration:**

S.I.T. – West Virginia

# résumé



**Max Dent**

**Sr. Design Technician**

## **Experience and Qualifications:**

Max is an experienced designer for a wide range of civil engineering disciplines. His experience has encompassed site development, piping design, building design and municipal design. Additionally, he is the systems manager for our computer and network systems. He is responsible for detailed plan development for a variety of civil and municipal design projects using various CADD platforms.

His primary responsibilities include:

- Building Design
- Industrial Piping Design
- Site Development
- Municipal Design

## **Representative Project Experience:**

- Valley Park Expansion Site and Trail Design
- Eleanor Industrial Park Site Design
- Verizon Sales Building
- Central Distributing, Inc. Site and Building Design
- Sable Point Subdivision Design
- City of Hurricane Wastewater Treatment Plant Expansion
- Putnam P.S.D. Water Line Extensions
- Union Carbide Corporation Building 14 Structural Design
- Toyota Motor Manufacturing of WV - Retail Sales Building Design
- Town of Buffalo, WV Wastewater Collection System
- Rhone-Poulenc Gas Process Collection Structure
- Toyota Motor Manufacturing of WV - Plant Expansion
- Quality Hardwood Millwork Office and Warehouse Facility
- Putnam P.S.D. Office Building Expansion
- Rite-Aid Corporation Site Designs (40)
- Young Builders - AEP Facilities Expansion
- City of Hurricane Water Treatment Plant Expansion
- Town of Winfield, WV Wastewater Collection System
- City of Eleanor, WV Water Distribution Expansion

## **Education:**

Center College

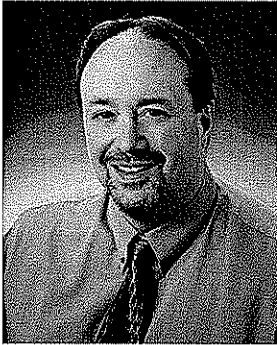
## **Certification**

Wastewater Treatment Operator, Class 1

## **Professional Societies:**

National Fire Protection Association (NFPA)

# résumé



**Larry A. Stricker**  
Sr. Design Technician

## **Experience and Qualifications:**

Larry is a versatile designer with extensive experience in a range of engineering disciplines. His experience has encompassed highways, bridges, site development, buildings and structures. He is responsible for detailed plan development for a variety of civil and structural design projects using various CADD platforms.

His primary responsibilities include:

- Highways/Bridges
- Site/Civil
- CADD Design
- Buildings

## **Representative Project Experience:**

- Culloden Bridge over CSX Railroad
- US Route 119/Massey Office Turn Lanes and Access Road Relocation
- Massey Coal Services Headquarters Site Development
- FedEx Distribution Center Foundations
- US Route 35/Winfield Road Widening
- Tractor Supply Retail Site Developments (2)
- Augusta Engineering –Columbia Natural Gas Foundations
- Peerless Brick & Block Company Retaining Walls
- Putnam P.S.D. – Morrison Hollow Water Line Extension
- Mountain State University Health Building Structural Framing and Foundation
- Little General Store Headquarters Structural Framing and Foundation
- Toyota Motor Manufacturing of WV - Auditorium Building Expansion
- Berkeley County P.S.D. Wastewater Treatment Plant - Structural and Foundations
- City of Hurricane Wastewater Treatment Plant - Structural and Foundations
- The Ridges Gated Community Access Road and Utilities
- AB Contracting - City of Milton Apartment Complex Utilities
- US Route 19 (Corridor L) Roadway Widening
- US Route 60 Reinforced Concrete Box Culverts
- Ashland, KY – Town Center Mall Flood Wall
- US Route 35 Reinforced Concrete Box Culverts

## **Education:**

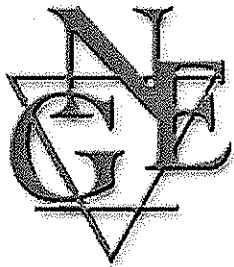
A.S., West Virginia Institute of Technology, 1987

## **Certification:**

N.H.I. – Bridge Inspection Team Leader

**section 5**

**SUB-CONSULTANT  
(Novel Geo-Environmental, PLLC)**

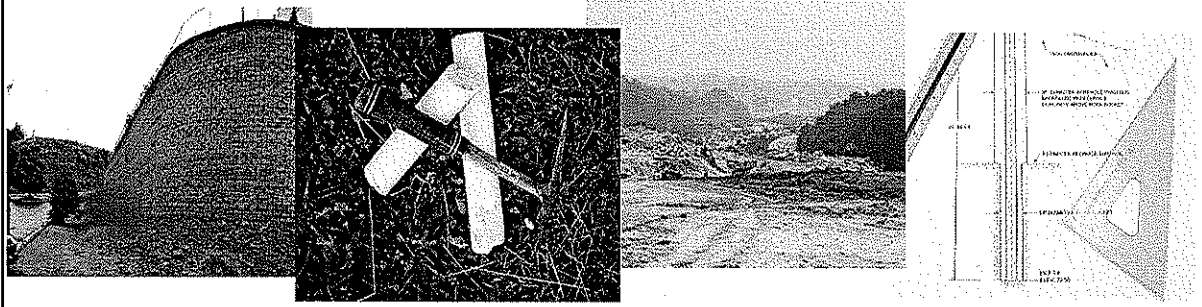
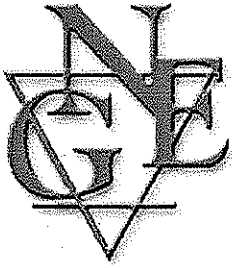


Novel Geo-Environmental, PLLC  
St. Albans, West Virginia

*Exceptional staff.*

*Exceptional results.*

*Allow us to show what we can do for you.*



## ***Company Overview***

Novel Geo-Environmental, PLLC (NGE) is a full-service geotechnical and environmental engineering firm with offices located in St. Albans, West Virginia, and Pittsburgh, Pennsylvania. Led by an experienced management team, NGE provides quality geotechnical services to a variety of clients in both the private industry and government sectors.

In business since 2002, NGE is one of the fastest growing engineering consulting firms in the country.

### ***Who is NGE?***

Our staff includes professional engineers, geologists, scientists, construction managers, and foremen with experience in a broad range of technical disciplines. Our management team averages 15+ years of experience per person

### ***Why NGE?***

NGE is large enough to fulfill the needs of our client in-house, yet small enough to provide the personal focus each client deserves. With smaller overhead than larger companies, NGE can provide exceptional services at lower cost.

NGE is a Certified Disadvantaged Business Enterprise (DBE) in West Virginia, Pennsylvania, Ohio, Maryland, and New Jersey and is certified by the Small Business Administration as an 8(a) Small Disadvantaged Business.

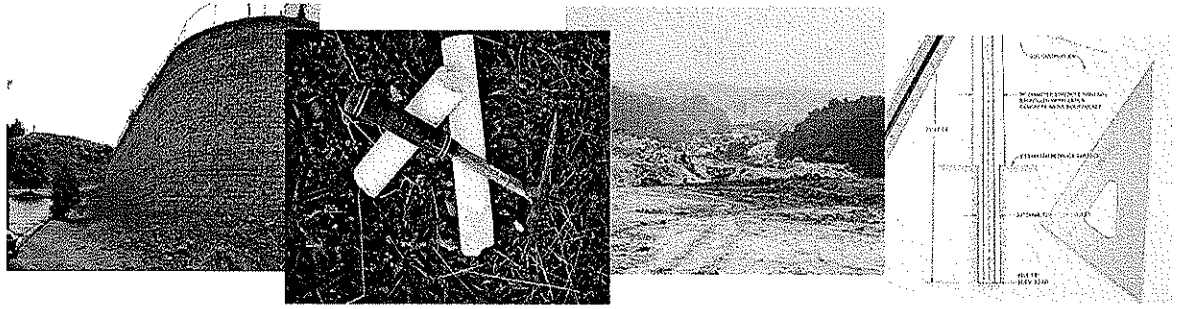
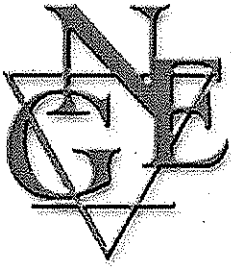
### West Virginia Office

806 B Street  
St. Albans, WV 25177  
(304) 201-5180  
(304) 201-5182 (fax)  
Contact: John E. Nottingham, P.E.  
[jnottingham@novel-ge.com](mailto:jnottingham@novel-ge.com)

### Pennsylvania Office

100 Commercial Street, Suite 101  
Bridgeville, PA 15017  
(412) 838-0115  
(412) 838-0120 (fax)  
Contact: Amy L. Veltri, P.E.  
[aveltri@novel-ge.com](mailto:aveltri@novel-ge.com)

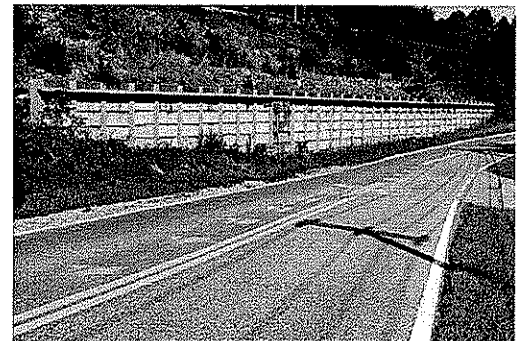


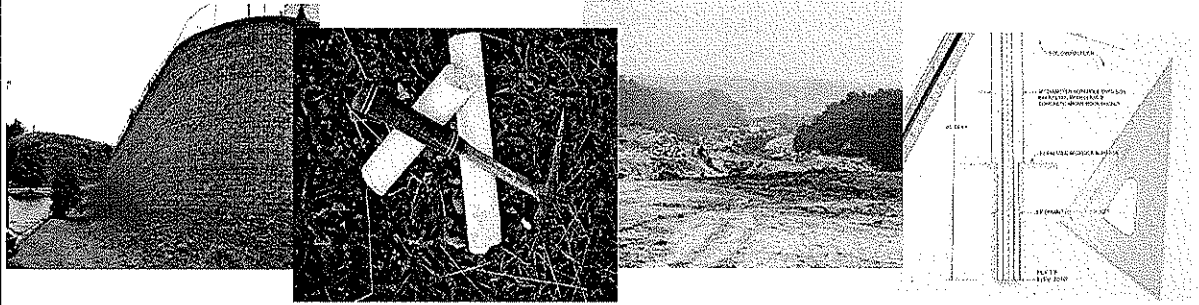
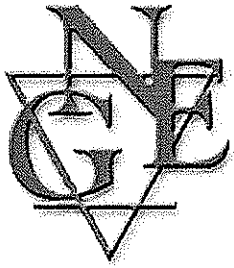


## *Geotechnical Engineering*

The natural complexity and variability present in the subsurface requires a specialized expertise to ensure reliable results. NGE investigates and evaluates subsurface soil, rock, and groundwater conditions to analyze their response to the needs of a given project, whether they be foundation loads, site grading operations/slope configuration, or retaining wall design. A sampling of the geotechnical services NGE provides includes the following:

- Foundation investigations - commercial/residential construction, WVDOH bridge and roadway, airport geotechnical design, public and private utilities (water storage tanks, communications towers, etc.)
- Landslide investigations/remediation - slope design, retaining wall design
- Forensic Engineering/Insurance investigations
- Mine subsidence investigations/ground stabilization
- Dam design/rehabilitation
- Pavement analysis and design
- Groundwater seepage analysis and design

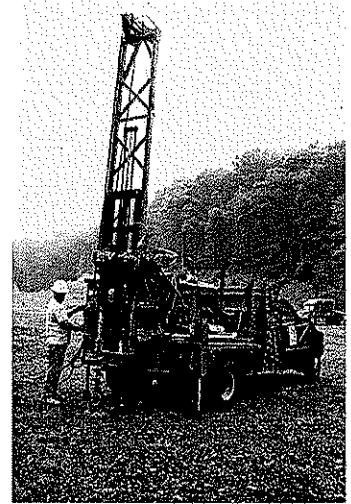




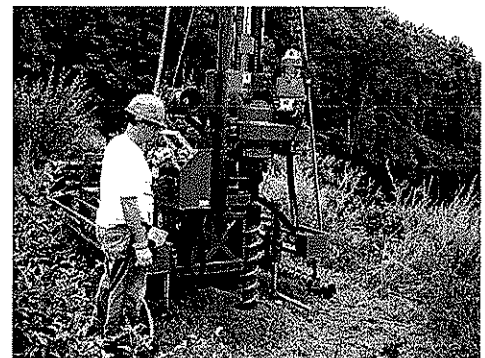
## Drilling Services

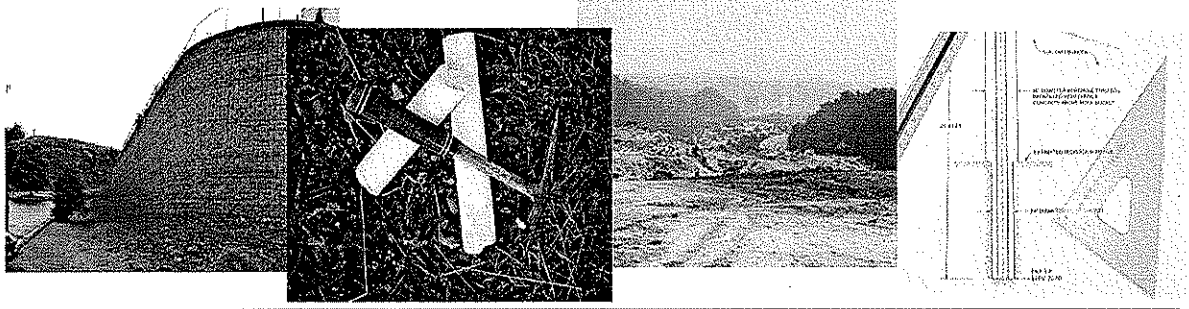
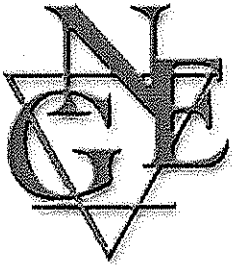
NGE is equipped with a variety of versatile drilling equipment to meet the demands of our clients even in the most demanding of environments. This includes:

- Truck-mounted rotary drill rig equipped with hollow stem augers used primarily for Standard Penetration Testing (SPT). It can also be used for conventional rock coring.
- Custom manufactured state-of-the-art track-mounted rotary drill rig, also equipped with hollow stem augers for SPT sampling. This machine is also equipped for wire-line coring and is uniquely designed to access hard-to-reach areas (such as rugged terrain or limited access) with a minimum of disturbance.
- Portable Tri-Pod drill able to perform SPT sampling in areas that are inaccessible to conventional drilling equipment.
- Dynamic Cone Penetrometer - portable device designed to provide comparable SPT "N-values" in areas with very limited access



NGE also provides monitoring well installation services that meet the requirements for the State of West Virginia Certified Monitoring Well Driller program.

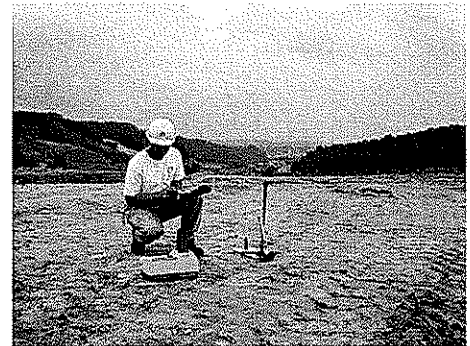


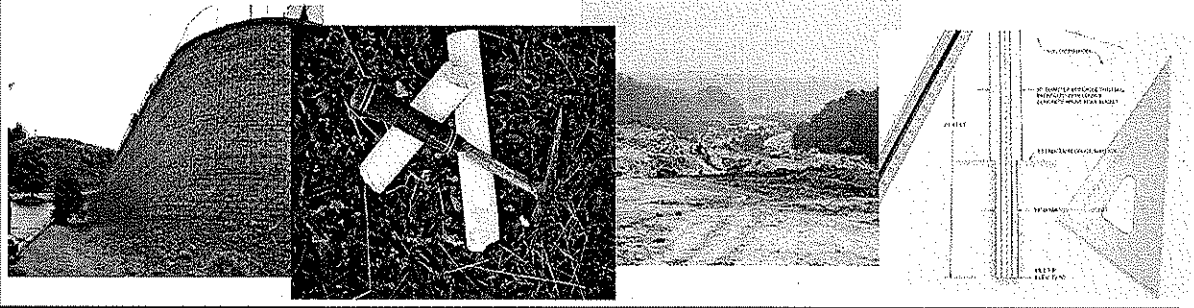
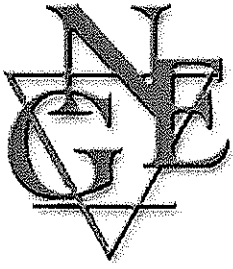


## Construction Monitoring and Inspection Services

NGE offers inspection services to support a wide variety of construction projects, including highway, building, and airport. Our technicians are qualified and certified in a variety of services and will meet the specific needs of the client in an efficient and competent manner. NGE is also a West Virginia certified DBE firm as well as a federal Disadvantaged Business (8[a]). NGE can provide and manage the following services:

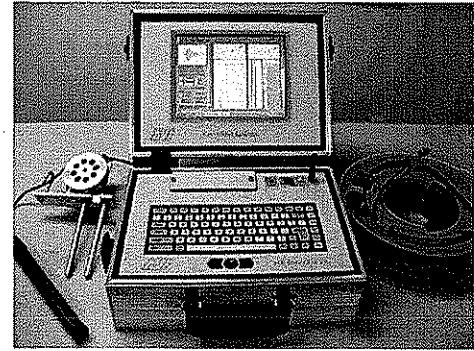
- Materials Testing and Analysis (concrete, asphalt, fill placement)
- Independent Construction Inspection
- Contractor Submittal and Shop Drawing Review
- Documentation and Process Verification
- Bidding Assistance and Analysis
- Cost Estimating and Cost Control Monitoring
- Design Review
- Value Engineering
- Project Partnering
- Quality Assurance Monitoring





### Laboratory Testing Services

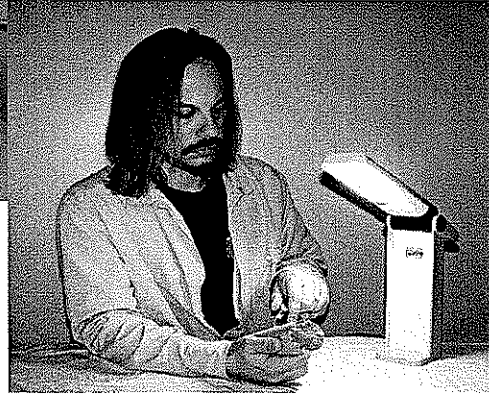
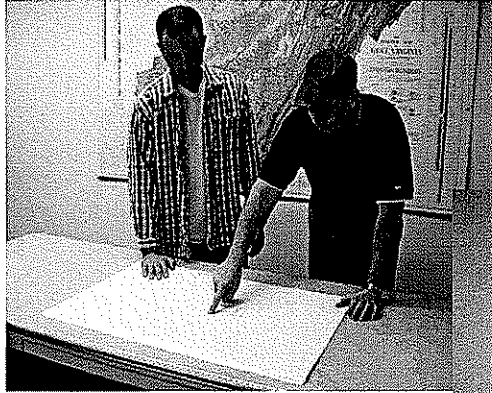
NGE can provide laboratory geotechnical testing in accordance with ASTM standards under controlled conditions to further estimate the engineering properties of soil and rock materials. Typical laboratory testing includes soil classification, compaction, compressibility, swell potential, and permeability.



### Crosshole Sonic Logging (CSL)

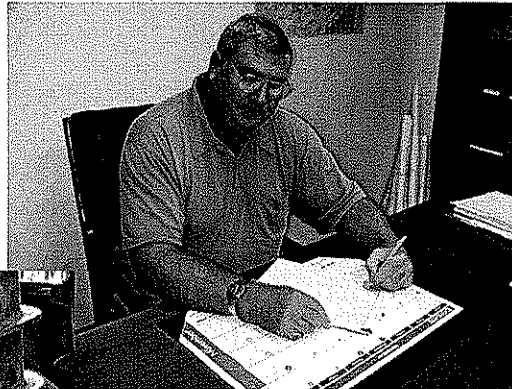
NGE provides Crosshole Sonic Logging (CSL) to test the integrity of drilled concrete shafts. CSL testing is a non-destructive method that checks the homogeneity and integrity of concrete in a deep foundation by sending ultrasonic pulses through the concrete from one probe to another. The test measures the propagation time and relative energy of the ultrasonic pulse between parallel access tubes (access tubes typically consist of 2-inch diameter steel tubes attached to the drilled shaft reinforcement cage). The pulse arrival time (a.k.a. first arrival time (FAT)) and energy are affected by the concrete. Uniform concrete yields consistent arrival times with reasonable wave speed and energy. Non-uniformities such as zones of poor quality concrete, honeycombing, voids, and soil inclusions exhibit delayed arrival times with corresponding reduced signal energy.

NGE's broad range of experience in each of the previously listed services enables us to provide our clients with high-quality geotechnical engineering, remediation and construction services while meeting budgets and deadlines.



*Personnel*

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Over eleven years of experience as an environmental and civil engineer in consulting and industry. Currently serving as president of a geotechnical and environmental engineering consulting firm. Experience includes extensive management of personnel and large projects, including management of project schedules, scope of work, and budgets. Personnel management includes selection of project staffing, staff reviews, and mentoring. Significant experience in air quality for various industrial clients including Title V permitting and compliance, emissions inventories and control technology assessments. Completed numerous multi-media regulatory compliance audits and Phase I site assessments. Assisted clients with ISO 14001 registration process. Assisted industrial clients with NPDES permit compliance including completion of DMR's and permit renewal and negotiation. Completed general construction monitoring services including density testing and concrete testing.

#### Fields of Competence

- Personnel Management
- Project Management (schedule and budget)
- Air Quality Regulations/Compliance
- Wastewater Treatment/Permitting
- Environmental Management Systems (ISO 14001)
- Process Safety Management/Risk Management Planning
- Multimedia Compliance Audits
- Hazardous Waste Training
- Stormwater Permitting/Pollution Prevention Plans
- Spill Prevention Control and Countermeasure Plans
- Construction Monitoring and General Geotechnical Engineering

#### Education

- M.S., Civil Engineer, West Virginia University, 1996
- B.S., Civil Engineer, West Virginia Institute of Technology, 1989
- OSHA 1910.120 40-hour HAZWOPER Training, 1991

#### Registration/Certifications

- Registered Professional Engineer in Pennsylvania. Registration No.: PE-050393-E, Registration Date: 08/96
- Registered Professional Engineer in West Virginia. Registration No.: 14241, Registration Date: 09/99
- Diplomat Environmental Engineer, American Academy of Environmental Engineers, 07/02
- Certified Wastewater Treatment Plant Operator, Class A in Pennsylvania. Certificate No.: T3770, Registration Date: 06/01
- Certified ISO 14001 Lead Assessor, 04/02

#### Employment History

- August 2002 - Present  
President, Novel Geo-Environmental, LLC
- August 1998 - August 2002  
Senior Project Manager, ERM
- November 1995 - August 1998  
Regional Environmental Coordinator, US Airways
- March 1992 - November 1995  
Project Engineer, ERM
- January 1990-September 1990  
Staff Engineer, ERM

# John E. Nottingham, P.E., P.S.



Mr. Nottingham has served as lead Geotechnical Engineer on numerous 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, dam design and analysis, 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 staff and project level geotechnical engineers.

## Fields of Competence

- Highway & Airport Geotechnical Design
- Foundation Investigations
- Pavement Analysis and Design
- Landslide Analysis & Remedial Design
- Ground Water and Seepage Analysis & Design
- Retaining Wall 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. Registration No. 12357 (since 1994)
- Registered Professional Surveyor in West Virginia. Registration No. 1495 (since 1995)

## Employment History

- November 2002 – Present  
Branch Manager, Novel Geo-Environmental, LLC
- 1997 – November 2002  
Geotechnical Services Manager, Triad Engineering, Inc.
- 1996 – November 2002  
Senior Engineer, Triad Engineering, Inc.
- 1993 – 1996  
Project Engineer, Triad Engineering, Inc.
- 1988 – 1993  
Staff Engineer, Triad Engineering, Inc.

# Larry C. Nottingham, PhD, PE



Mr. Nottingham served as a Principal Engineer at Triad Engineering, Inc. for over 25 years before joining the professional staff at NGE. During that time he has accumulated a broad range of experience in the numerous disciplines of geotechnical engineering. Mr. Nottingham also served as a professor and department chair of the Civil Engineering Department at the West Virginia University Institute of Technology in Montgomery, West Virginia. Mr. Nottingham was involved with consultation and review of many subsidence related projects performed for BRIM as well as the WVDEP.

## Fields of Competence

- Foundation Investigations
- Landslide Analysis & Remedial Design
- Mine Subsidence Investigations
- Highway & Airport Geotechnical Design
- Pavement Analysis & Design
- Retaining Wall Design
- Forensic & Insurance Investigations
- Expert Witness Consultation
- Ground Water and Seepage Analysis & Design
- Dam Analysis & Design
- Personnel Management
- Project Management
- Project Estimating

## Education

- B.S.C.E., Civil Engineering, West Virginia Institute of Technology, 1965
- M.S.C.E., Civil Engineering, University of Pittsburgh, 1966
- Ph.D., Civil Engineering, University of Florida, 1975

## Registration/Certifications

Registered Professional Engineer in West Virginia, Kentucky, and Ohio

## Employment History

- May 2005 - Present  
Senior Engineer, Novel Geo-Environmental, PLLC
- 1979 - May, 2005  
Principal Engineer, Triad Engineering, Inc.
- 1989 - 1994  
Professor and Department of Civil Engineering Chair, West Virginia Institute of Technology
- 1975 - 1979  
Senior Engineer, Fugro Gulf, Inc., Houston, Texas
- 1970 - 1974  
Project Engineer, Florida Department of Transportation
- 1967 - 1970  
Project Engineer - Ackenheil & Associates, Inc.



# Chuck Montgomery, P.G



Mr. Montgomery has served as Project Geologist 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, mine subsidence evaluation and assessment, supervision of subsurface drilling programs, field activity coordination, laboratory data computation and processing, performance of fieldwork, client relations, and supervision of staff.

## Fields of Competence

- Foundation Investigations
- Landslide Analysis
- Mine Subsidence Investigations
- Seismic Site Class evaluation, per International Building Code (IBC) 2000 edition.
- Forensic & Insurance Investigations
- Personnel Management
- Project Management (schedule and budget)
- Project Estimating

## Education

- B.S., Geology, Marshall University - 1991
- OSHA 1910.120 40-hour HAZWOPER Training, 1992

## Registration/Certifications

- Registered Professional Geologist in Kentucky. Registration No. KY-2258 (since 1999)
- Certified Monitoring Well Driller in West Virginia
- OSHA 1910.120 40-hour HAZWOPER Training, 1992

## Employment History

- February 2004 - Present  
Project Manager, Novel Geo-Environmental, LLC
- 1996 - February 2004  
Project Geologist, Triad Engineering, Inc.
- 1992 -1996  
Staff Geologist, Triad Engineering, Inc.

# Gene Brown, E.I.



Mr. Brown has served as Staff 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, slope stability analysis, dam analysis, AutoCAD drafting, supervision of subsurface drilling programs, field activity coordination, field portion of environmental site assessments, structural inspections, GPS and conventional surveys, laboratory data computation and processing, performance of fieldwork, client relations, and supervision of staff.

## Fields of Competence

- Foundation Investigations
- Landslide Analysis & Remedial Design
- 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

- Engineer Intern, West Virginia
- OSHA 1910.120 40-hour HAZWOPER Training, 2005

## Employment History

- October 2006 – Present  
Staff Engineer, Novel Geo-Environmental, LLC
- 2001 – 2006  
Staff Engineer, Terradon Corporation
- 2000 – 2001  
Survey Technician, John E. Chance & Associates, Inc
- 1999  
Engineer Intern, Burgess & Niple, Ltd.

# Christopher T. Dunlap



Mr. Dunlap has served as an engineering technician/field inspector on numerous government and commercial construction projects. His duties on these projects have included quality assurance/quality control (QA/QC), construction oversight and testing, coordination of field activities, liaison between general contractor and engineer, and project reporting. Mr. Dunlap also has experience with drilling inspection and computation of laboratory data.

## Fields of Competence

- Fill placement monitoring/compaction
- Concrete testing and sampling
- Asphalt testing/compaction
- Project Management
- Drilling Inspection
- Project Documentation/Reporting

## Education

- A.S., Mechanical Engineering Technology, WVU Institute of Technology, 2000

## Registration/Certifications

- Certification for WV DOH Compaction Technician.
- Certification for WV DOH Concrete Technician/Inspector.
- Certification for WV DOH Asphalt Inspector.
- American Concrete Institute (ACI) Certified

## Employment History

- July 2004 -Present  
Staff Engineer, Novel Geo-Environmental, LLC
- August 2000 -July 2004  
Field Technician, Triad Engineering, Inc.

# Larry E. Easter



Mr. Easter has approximately 39 years experience as quality control technician/inspector and environmental technician. As a geotechnical technician, he has provided quality control overnight and testing services on numerous commercial and industrial projects. His duties have included compaction and concrete testing and observations, liaison between the general contractor and Engineer/Owner, and project reporting. He also has experience as a soils and concrete laboratory technician and as an engineering draftsman.

## Fields of Competence

- Compaction testing and fill placement monitoring
- Concrete testing and sampling
- Drilling inspection
- Project documentation/reporting
- Geotechnical laboratory testing
- Concrete laboratory testing
- AutoCAD drafting and design

## Education

- Certificate - Computer Aided Drafting and Design; Ben Franklin Career Center, 2005
- Troxler Nuclear Moisture-Density Gauge Certification, 2005

## Employment History

- 1970 - 2004  
Flexsys America  
Environmental Technician  
Laboratory Analyst  
Operating Technician  
Master Mechanic
- 1966 - 1970  
A. C. Ackenheil & Associates, Inc.  
Compaction Technician  
Concrete Technician  
Soils & Concrete Laboratory Technician  
Engineering Draftsman

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE Attachment "B"

PROJECT NAME: Island Creek  
 DATE: September 8, 2008  
 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. ESTAB: 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:  
 806 B Street  
 St. Albans, WV 25177  
 304-201-5180  
 Office Manager: John E. Nottingham, P.E.  
 No. AML Design Personnel in St. Albans, WV: 5  
 No. AML Design Personnel in Moon Township, PA: 5

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM:  
 Amy L. Veltri - President  
 John E. Nottingham - Vice President  
 8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS

9. PERSONNEL BY DISCIPLINE (Bold Lettering Indicates Minimum Design Team Members)

— ADMINISTRATIVE	— ECOLOGISTS	— LANDSCAPE ARCHITECTS	— STRUCTURAL ENGINEERS
— ARCHITECTS	— ECONOMISTS	— MECHANICAL ENGINEERS	— <b>SURVEYORS</b>
— <b>BIOLOGIST</b>	— ELECTRICAL ENGINEERS	— <b>MINING ENGINEERS</b>	— TRAFFIC ENGINEERS
1 CADD OPERATORS	4 ENVIRONMENTALISTS	— PHOTOGRAMMETRISTS	4 DRILLERS & HELPERS
— CHEMICAL ENGINEERS	— ESTIMATORS	— PLANNERS: URBAN/REGIONAL	5 OTHER PERSONNEL
2 CIVIL ENGINEERS	2 <b>GEOLOGISTS</b>	— SANITARY ENGINEERS	
— 4 CONSTRUCTION INSPECTORS	— HISTORIANS	2 SOILS ENGINEERS	
— DESIGNERS	— HYDROLOGISTS	— SPECIFICATION WRITERS	20 TOTAL PERSONNEL
— DRAFTSMEN			

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 2  
 \*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? YES

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 SPECIALTY:

NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No

12. A Is your firm experienced in Abandoned Mine Lar 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 currently holds a contract with WVDEP-AML for geotechnical drilling for the northern district 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 hundred 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 ASSOCIATE RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

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

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

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 DOMESTIC WATERLINE DESIGN EXPERIENCE:
Montgomery, Charles, E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	0
	10	4	

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 ASSOCIATE RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)	
NAME & TITLE (Last, First, Middle Int.) Nottingham, Larry C.	YEARS OF AML DESIGN EXPERIENCE: 15
	YEARS OF AML RELATED DESIGN EXPERIENCE: 5
	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0
Brief Explanation of Responsibilities	
<p>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.</p>	
EDUCATION (Degree, Year, Specialization)	
<p>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</p>	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	
<p>Member, American Society of Civil Engineers  Member, National Society of Professional Engineers</p>	
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 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. PRC E A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN , PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AN.  
DESIGN SERVICES

Three rotary drill rigs, one mounted on a four wheel drive one-ton truck, and two track-mounted 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 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

15. CUK T ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATE ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Chesapeake Energy Office & Shop Complex, Geotechnical Investigation, Inez, KY	Chesapeake Energy Corporation, 6100 N. Western Avenue, Oklahoma City, OK 73154	Perform subsurface investigation, develop and provide recommendations for building foundation design	Unknown, Fee = \$6600.00	5
Annual Geotechnical Drilling Contract, Northern West Virginia	West Virginia Department of Environmental Protection	Perform geotechnical (drilling) investigations of abandoned mine land sites as directed by WVDEP/AML personnel.	Unknown	30
TOTAL NUMBER OF PROJECTS: 2			TOTAL ESTIMATED CONSTRUCTION COSTS: \$	Unknown

16. CUK AT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A

-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
Ten Cell Tower Sites, Geotechnical Investigations, Various Locations Throughout WV	Determine Site Subsurface Conditions, Provide Foundation Design Recommendations.	Terradon Corp. Nitro, WV	March, 2008	Unknown	Fee \$33,000
Six Cell Tower Sites, Geotechnical Investigations, Various Locations Throughout WV	Determine Site Subsurface Conditions	PSI, Inc. 153 Williams Hwy Parkersburg, WV	March, 2008	Unknown	Fee ≈ \$12,000
Toyota Meeting Room, Geotechnical Investigation, Buffalo, WV	Geotechnical Investigation for New Building Structure	Toyota Corp. Buffalo, WV	March, 2008	Unknown	Fee \$4000
I-64 Over Hal Greer Blvd. Bridge, CSL Testing, Huntington, WV	Perform Cross-Hole Sonic Logging of New Foundation Drilled Piers	West Virginia Dept. of Highways, Charleston, WV	August, 2008	Unknown	Fee ≈ \$17,000
Harrison Co. EMS Station, Geotechnical Investigation, Clarksburg, WV	Determine Site Subsurface Conditions, Provide Foundation Design Recommendations	Harrison Co. EMS Clarksburg, WV	February, 2008	Unknown	Fee \$4000
Corridor H Highway Construction, Quality Control Testing, Grant Co., WV	Perform soil compaction and concrete quality control tests.	West Virginia Dept. of Highways, Charleston, WV	November, 2008	Unknown	Fee ≈ \$75,000
Water Storage Tank, Subsurface Investigation, Gilbert, WV	Determine Site Subsurface Conditions	Gilbert PSD Gilbert, WV	March, 2008	Unknown	Fee \$3000



18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE 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) In Process	FIRM ASSOCIATED WITH
S. Mineral Wells Interchange, Geotechnical Study, Mineral Wells, WV	WV Department of Highways Charleston, WV	\$5,000,000	2007	In Process	L. A. Gates Co.
Winefrede RR Overpass Bridge, Geotechnical Investigation, Winefrede, WV	WV Department of Highways Charleston, WV	\$1,500,000	2005	Yes	HNTB Corporation
Performing Arts Center, Geotechnical Investigation, Buckhannon, WV	West Virginia Wesleyan College, Buckhannon, WV	\$500,000	2007	Yes	R. D. Zande & Associates, Inc.
Mt. Gay Overpass Bridge, Geotechnical Investigation, Logan, WV	WV Department of Highways Charleston, WV	\$1,000,000	2004	Yes	HMB Professional Engineers, Inc.
Water Tanks, Geotechnical Investigation, Iager, WV	Iager PSD Iager, WV	\$100,000	2006	Yes	Stafford Consultants
5th Avenue Bridge, Geotechnical Investigation, Huntington, WV	WV Department of Highways Charleston, WV	\$2,500,000	2003	Yes	Modjeski & Masters, Charleston, WV

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*  
 Printed Name: John E. Nottingham

Title: Vice President

Date: 9/11/08

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

**section 6**

**RANDOLPH ENGINEERING  
WVDEP AML CCQQ**

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE Attachment "B"

PROJECT NAME  
 Island Creek #18 Mine Complex

DATE (DAY, MONTH, YEAR)  
 September 8, 2008

FEIN  
 550588736

1. FIRM NAME  
 RANDOLPH ENGINEERING CO., INC.

2. HOME OFFICE BUSINESS ADDRESS  
 P.O. BOX 346 - 4414 TEAYS VALLEY ROAD  
 SCOTT DEPOT, WV 25560

3. FORMER FIRM NAME

4. HOME OFFICE TELEPHONE  
 304.757.9217

5. ESTABLISHED (YEAR)  
 1976

6. TYPE OWNERSHIP  
 CORPORATION

6a. WV REGISTERED DBE  
 (Disadvantaged Business Enterprise)  
 YES  NO

7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE  
 4414 TEAYS VALLEY ROAD, SCOTT DEPOT, WV 25560/304.757.9217/AARON C. RANDOLPH, P.E./10

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM  
 ROGER K. RANDOLPH, P.E. - PRESIDENT

8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS

9. PERSONNEL BY DISCIPLINE

4 ADMINISTRATIVE	—	ECOLOGISTS	—	LANDSCAPE ARCHITECTS	—	STRUCTURAL ENGINEERS
— ARCHITECTS	—	ECONOMISTS	—	MECHANICAL ENGINEERS	—	1 SURVEYORS
— BIOLOGIST	—	ELECTRICAL ENGINEERS	—	MINING ENGINEERS	—	TRAFFIC ENGINEERS
1 CADD OPERATORS	—	ENVIRONMENTALISTS	—	PHOTOGRAMMETRISTS	—	2 OTHER (SURVEY PERSONNEL)
— CHEMICAL ENGINEERS	—	ESTIMATORS	—	PLANNERS: URBAN/REGIONAL	—	
3 CIVIL ENGINEERS	—	GEOLOGISTS	—	SANITARY ENGINEERS	—	
— CONSTRUCTION INSPECTORS	—	HISTORIANS	—	SOILS ENGINEERS	—	
3 DESIGNERS	—	HYDROLOGISTS	—	SPECIFICATION WRITERS	—	14 TOTAL PERSONNEL
— DRAFTSMEN						

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 3  
 \*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?  YES  NO



11. OUTSTANDING KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Confidential Qualification Questionnaire".

<p>NAME AND ADDRESS:  <b>NOVEL GEO-ENVIRONMENTAL, PLLC</b>  <b>806 B STREET</b>  <b>ST. ALBANS, WV 25177</b></p>	<p>SPECIALTY:  <b>SOILS/ENVIRONMENTAL</b></p>	<p>WORKED WITH BEFORE  <input checked="" type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>

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

YES Description and Number of Projects: \_\_\_\_\_

NO

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects: \_\_\_\_\_

NO

C. Is your firm experienced in hydrology and hydraulics? **YES**

**YES** Description and Number of Projects: **We have performed more than 50 land development projects as well as stand alone storm water projects that have required hydraulic analysis, storm water management, storm water detention, sediment & erosion control, WVDEP and US Army COE permitting and involvement.**

NO

D. Does your firm produce its own Aerial Photography and Develop Contour Mapping? **NO/YES**

**YES** Description and Number of Projects: **We do not produce Aerial Photography. We do develop our own contour and topographic mapping from GPS and/or traditional surveying**

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.) **YES**

**YES.** Description and Number of Projects: **We have extensive experience in domestic water distribution design. We have designed projects for Putnam PSD, City of Hurricane as well as the Putnam County Commission. These projects have ranged from plant upgrades, line extensions and water storage impoundments.**

NO

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

YES Description and Number of Projects: \_\_\_\_\_

NO

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)		RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)	
NAME & TITLE (Last, First, Middle Int.) <b>Randolph, Roger K. Project Manager/Design Engineer</b>		YEARS OF AML DESIGN EXPERIENCE: EXPERIENCE: <b>32</b>	YEARS OF AML RELATED DESIGN EXPERIENCE: EXPERIENCE: <b>32</b>
YEARS OF AML DESIGN EXPERIENCE: EXPERIENCE: <b>32</b>		YEARS OF AML RELATED DESIGN EXPERIENCE: EXPERIENCE: <b>32</b>	
Brief Explanation of Responsibilities			
Project Manager and design engineer for numerous land development, domestic water distribution, storm water, earth moving projects.			
EDUCATION (Degree, Year, Specialization) <b>B.S. / 1967 / Civil Engineering – Ohio University</b>			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS <b>American Society of Civil Engineers National Society of Professional Engineers</b>			
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)		RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)	
NAME & TITLE (Last, First, Middle Int.) <b>Randolph, Aaron C. Project Manager/Design Engineer</b>		YEARS OF AML DESIGN EXPERIENCE: EXPERIENCE: <b>15</b>	YEARS OF AML RELATED DESIGN EXPERIENCE: EXPERIENCE: <b>15</b>
YEARS OF AML DESIGN EXPERIENCE: EXPERIENCE: <b>15</b>		YEARS OF AML RELATED DESIGN EXPERIENCE: EXPERIENCE: <b>15</b>	
Brief Explanation of Responsibilities			
Project Manager and design engineer for numerous structural and civil projects including storm water drainage structures, retaining walls, earthmoving/site grading and construction engineering services.			
EDUCATION (Degree, Year, Specialization) <b>B.S. / 1992 / Civil Engineering – WV Institute of Technology M.S. / Pending Thesis – WV University</b>			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS <b>American Society of Civil Engineers</b>			
		REGISTRATION (Type, Year, State) <b>Civil / 1997 / WV Survey Intern / 2002 / WV</b>	

<b>13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)</b>	
<b>NAME &amp; TITLE (Last, First, Middle Int.)</b> <b>White, Jacob C.</b> <b>Project Manager/Design Engineer</b>	<b>YEARS OF AML DESIGN EXPERIENCE:</b> <b>EXPERIENCE: 10</b>
<b>Brief Explanation of Responsibilities</b>  <b>Project Manager and design engineer for numerous land development, roadway, storm water and permitting projects. Also, responsible for wetland and stream delineation.</b>	<b>YEARS OF AML RELATED DESIGN EXPERIENCE:</b> <b>EXPERIENCE: 10</b>
<b>EDUCATION (Degree, Year, Specialization)</b> <b>B.S. / 1997 / Civil – WV Institute of Technology</b>	
<b>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</b> <b>American Society of Civil Engineers</b>	
<b>13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)</b>	
<b>NAME &amp; TITLE (Last, First, Middle Int.)</b> <b>Hayes, Donald R.</b> <b>Survey Manager/Project Manager</b>	<b>YEARS OF AML DESIGN EXPERIENCE:</b> <b>EXPERIENCE: 29</b>
<b>Brief Explanation of Responsibilities</b>  <b>Manager responsible for all surveying and various land development, storm water and utility design projects.</b>	<b>YEARS OF AML RELATED DESIGN EXPERIENCE:</b> <b>EXPERIENCE: 29</b>
<b>EDUCATION (Degree, Year, Specialization)</b> <b>A.S. / 1970 / Civil Engineering</b>	
<b>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</b> <b>WV Land Surveyors Association</b>	
<b>REGISTRATION (Type, Year, State)</b> <b>P.L.S. / 1991 / WV</b>	

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

**SOFTWARE:** Autocad 2008, Land Development Desk Top 2008, MS Word, Excel, Wordperfect, Quattro Pro, Microstation V8, In-Roads, V8

**HARDWARE:** 12~Pentium Desktop Computers w/21" Monitors, HP Laptop Computer, Konica BizHub Color Printer/Copier, OCE 300 Large Format Plotter/Scanner, Sharp Office Copier, HP large Format Color Plotter

**SURVEY EQUIPMENT:** Leica Total Stations, Topcon Hyper Plus RTK GPS System

15. CUF T ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATE ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
City of Hurricane Raw Water Impoundment Analysis and Permitting (Phase 2)	The City of Hurricane 3255 Teays Valley Road Hurricane, WV 25526	Design, Analysis and Permitting	\$2,000,000	25%
City of Hurricane Sycamore Landfill Leachate Line	The City of Hurricane 3255 Teays Valley Road Hurricane, WV 25526	Design, Analysis, Permitting and R/W	\$1,000,000	75%
WV Self Storage Stream Analysis	Mr. Rusty Reed 1677 Grannies Creek Rd Newton, WV 25266	Hydraulic Analysis	N/A	90%
Tri-State Hotels Site Design	Junior Patel	Site, Stormwater, Retaining Wall Design and Permitting	1,200,000	80%
Augusta Engineering Flood Plain Analysis		Hydraulic Analysis	N/A	90%
Massey HQ Site Design and Access Road	Massey Energy Services 315 70 <sup>th</sup> Street S.E. Charleston, WV 25304	Site, Stormwater, Pond Design, Access Road, Water and Sewer Design and Permitting	\$3,000,000	95%
Advocat Care Nursing Home Site Design	AB Contracting 5521 Ohio River Road Pt. Pleasant, WV 25550	Site, Stormwater, Pond Design, Access Road, Water and Sewer Design and Permitting	\$500,000	95%
TOTAL NUMBER OF PROJECTS:			TOTAL ESTIMATED CONSTRUCTION COSTS: \$	



17. C LETTED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIR WAS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION

NAME AND ADDRESS OF OWNER

ESTIMATED CONSTRUCTION COST

YEAR

CONSTRUCTED (YES OR NO)

TOYOTA STORMWATER ANALYSIS

TOYOTA MOTOR MANUFACTURING OF WV, 1 SUGAR MAPLE LANE, BUFFALO, WV 25033

N/A

2003

N/A

THE RIDGES SITE DEVELOPMENT

AB CONTRACTING COMPANY 5521 OHIO RIVER ROAD PT. PLEASANT, WV 25550

\$5,000,000

2003

YES

CASTLENOCK RIDGE SITE DEVELOPMENT

DARR, INC. P.O. BOX 346 SCOTT DEPOT, WV 25560

\$1,500,000

2005

YES

CITY OF HURRICANE RAW WATER STORAGE IMPOUNDMENT

CITY OF HURRICANE 3255 TEAYS VALLEY ROAD HURRICANE, WV 25526

N/A

2006

N/A

FINNEY BRANCH SPILLWAY

HATFIELD ENTERPRISES, INC. 400 NORTH POPLAR FORK ROAD HURRICANE, WV 25526

\$500,000

2006

YES

BUFFALO STORMWATER OUTFALL

TOWN OF BUFFALO P.O. BOX 307 BUFFALO, WV 25033

\$300,000

2006

YES

US ROUTE 35/WINFIELD ROAD

WVDOT 1900 KANAWHA BLVD. EAST CHARLESTON, WV 25301

\$4,500,000

2002

NO

TEAYS CHURCH OF GOD

TEAYS CHURCH OF GOD SCOTT DEPOT, WV 25560

\$250,000

2006

YES



18. ( )PLETED 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
Little General Store HQ Building Design Beckley, WV	Cox Oil Company 623 Perkins Street Union City, TN 38261	\$200,000	2006	Yes	J. Dan Snead & Associates, Architect
Mt. State University Health Building Design	Mt. State University Beckley, WV	\$700,000	2005	Yes	J. Dan Snead & Associates, Architect

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. **We have extensive experience with projects of similar scope and tasks including site design, earthmoving, hydraulic analysis, stormwater management, permitting, surveying and construction management.**

20. The foregoing is a statement of facts.  
 Signature: Roger K. Randolph Title: PRESIDENT Date: 9/23/08  
 Printed Name: ROGER K. RANDOLPH

**section 7**  
**EXPERIENCE MATRIX**

**AML and RELATED PROJECT EXPERIENCE MATRIX**

PROJECT	Exp. Basis C=Corp. P=Personal	Additional Info Provided In Section (s)	PROJECT EXPERIENCE REQUIREMENTS													PARTICIPATION/CAPACITY							
			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 Removal	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Roger K. Randolph	Jacob C. White	Donald R. Hayes	Aaron C. Randolph		
Hurricane Water Impound.	C,P	3				X														M	P	P	
Sycamore Landfill	C,P	3										X								M,P		P	
WV Storage Stream Analysis	C,P	3				X															M,P		
Augusta Eng. Flood Plain Anal.	C,P	3				X															M,P		
Poplar Fork Flood Mitigation	C,P	3				X														M,P		P	
Putnam PSD Water Extension	C,P	3									X									M,P		P	
Massey HQ Site Design	C,P	3				X						X								M	P	P	P
Finney Branch Spillway	C,P	3				X														M	P	P	
Beaver Creek Bridges	C,P	3				X														M	P	P	
Toyota Storm Water Analysis	C,P	3				X														M			M,P
Buffalo Storm Water Outfall	C,P	3				X																	P
Bancroft Storm Water Anal.	C,P	3				X														M			P
The Ridges Site Development	C,P	3				X						X								M			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.