

West Virginia Department of Environmental Protection
Office of Abandoned Mine Lands and Reclamation

Wheatley Branch (Luthy) Portal Project DEP15588

Expression of Interest November 15, 2011



**PENTREE,
INCORPORATED**

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PURCHASING DIVISION
STATE OF WV

PI Pentree
Incorporated
Consulting Engineers



A Resource Engineering Group Company

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November 14, 2011

Mr. Chuck Bowman
West Virginia Department of Environmental Protection
Office of Abandoned Mine Lands and Reclamation
State of West Virginia Department of Administration
Purchasing Division
2019 Washington Street, East
Charleston, WV 25305-0130

**RE: Expression of Interest - Wheatley Branch (Luthy) Portals Design Project
DEP 15588**

Dear Mr. Bowman,

Pentree, Incorporated is pleased to have the opportunity to submit this Expression of Interest for the Wheatley Branch (Luthy) Portals Design Project in Logan County. Our firm is a full service civil engineering firm with extensive experienced in the design of drainage projects, as well as access roads and mine seals.

For the Wheatley Branch (Luthy) Portals Design Project, we have requested the highly experienced firm of Terracon to provide the geotechnical services. We feel this combination of our skills will provide the WV DEP's Office of Abandoned Mine Lands and Reclamation with an exceptional project team.

Enclosed in this response is the appropriate documentation to provide the selection committee with an opportunity to examine our credentials as well as related project experience.

We thank you for consideration of our qualifications and look forward to working together in the future.

Sincerely,
Pentree, Incorporated

John W. Tuggle, P.E., P.S.
President

JWT/jhv

enclosures

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Selection Criteria

A. West Virginia Professional Engineers (Civil or Mining) in the Primary Office.

Pentree, Incorporated has 3 **West Virginia Registered Professional Engineers** in our Primary Office located in Princeton, WV.

John Tuggle, PE
Robert Hazelwood, PE
Robert Shields, PE

B. Reclamation engineering design experience of the Primary Office's WV RPE as it relates to the specific project problem areas.

John Tuggle, PE, will serve as Project Manager and Principal-in-Charge. He has over 28 years of civil engineering experience on a wide variety of projects. Many of these projects included design elements that are common with AML & R projects.

Yogesh S. Rege, P.E. with Terracon will provide geotechnical engineering support for subsurface drilling investigation and water quality testing.

C. Available WV-AML Design Teams within the Primary office (A design team should consist of one Project Engineer (Civil or Mining), one CAD person and available support personnel as required by the particular project)

Pentree has the equivalent of 3 **WV-AML Design Teams** within the Primary Office; however, we have identified our primary WV-AML team that will be responsible for this project in the pages that follow.

Statement of Qualifications

Pentree, Incorporated began providing utility-based engineering services in 1965 when the Pentree Division of Bennet-Nave-Thomas incorporated as a separate entity. The firm relocated the corporate office to the Princeton area in 1973. Since then our firm has worked to maintain state of the art engineering means and methods as well as providing traditional oversight and technical assistance. We strive to provide the most efficient and accurate design for water, wastewater, mapping, surveying and transportation services. Additionally, Pentree, Incorporated offers the only in-house mapping and photogrammetry service in the State of West Virginia.

Pentree, Incorporated provides a wide variety of engineering and consulting services:

- **Civil / Environmental Engineering**
 - Public Utilities Comprehensive Studies
 - Feasibility/Preliminary Engineering Reports
 - Wastewater Collection & Treatment Systems
 - Water Treatment & Distribution Systems
 - Storm Water Management
 - Land Planning and Development
 - Structural Design
- **Transportation Engineering**
 - Highway/Roadways
 - Parking Lots
 - Bridges
 - Airports
- **Photogrammetry**
 - Digital Aerial Photography & Mapping
 - 3D Terrain Modeling
 - 2-D and 3-D Digital Documentation
- **Field Services**
 - Survey
 - Construction Management
 - Owner's Representative Services
 - GIS

TECHNICAL EXPERTISE

Pentree's roots are firmly planted in the engineering of publicly funded water and wastewater projects throughout the state of West Virginia and in western Virginia. For over a century, we have provided our technical expertise in all aspects of engineering and field services. The proven methods of approach we apply assure our clients of a successful project that meets their needs for the present and future. From the beginning phases of investigation and evaluation through design and construction management, ***Pentree, Incorporated provides the highest standards of performance.***

DESIGN

Pentree's Project Engineers utilize the most current technology available for design of your project, providing accuracy, flexibility for modifications and clear, concise and understandable drawings.

SURVEY

Pentree's survey department provides survey services and mapping utilizing top of the line equipment, operated by our survey crews. In addition to stakeout and mapping, the department prepares plats and performs courthouse searches. We can also assist our clients with the acquisition of easements, rights-of-way and other property to enable the project to move forward efficiently and effectively. Pentree provides the experienced and knowledgeable survey personnel essential to expediting your project.

CONSTRUCTION MANAGEMENT AND INSPECTION

Over the past century, Pentree has developed and employed methods in our construction management and inspection process that have been proven effective and efficient. Our measures include daily logs and inspection sheets, cut sheets, quantity tracking and field drawings. Our approach to a successful construction project includes good interaction between the Engineer, Construction Manager and Owner, along with the use of experienced Surveyors, Project Representatives and Technicians. We strive for positive dealings with Contractors, and Regulatory Agencies and we believe in teamwork with all parties involved with a project. Pentree's team will provide the communication needed and the documentation necessary to meet the your needs.

Management and Staffing

Pentree, Incorporated has dedicated personnel committed to providing superior service throughout all aspects of the engineering process.

Pentree, Incorporated offers a highly qualified and experienced staff to the WV DEP/AML&R for this project. The Pentree, Incorporated staff includes:

3 CIVIL ENGINEERS

7 CADD OPERATORS

4 SURVEYORS

7 CONSTRUCTION INSPECTORS

3 PHOTOGRAMMETRISTS

3 ADMINISTRATIVE SUPPORT PERSONNEL

Pentree, Incorporated is staffed with three registered professional engineers that are also licensed professional surveyors. Additionally, the staff of surveyors, construction inspectors, diversely skilled technicians and support personnel provides the resources and support necessary to provide our clients with the thorough and efficient services they require and deserve.

Project Team

Pentree, Incorporated will assign a team of talented and experienced engineers and technicians to the Luthy Portals Project. Each member of this team brings a specific area of expertise that is essential for a successful project.

John Tuggle, P.E., P.S., President of Pentree, Incorporated, will serve as **Principal-In-Charge**. He is actively involved in the daily management of the firm. Mr. Tuggle will be a strong asset to this project.

Bob Hazelwood, P.E., P.S. will serve as **Quality Control/Quality Assurance**. With his thirty years of utility design, Mr. Hazelwood will provide his valuable expertise for the quality control of the design process.

Gary Shields, P.E., P.S., Survey Department Director will coordinate all survey activities.

Yogesh Rege, P.E., with Terracon, will provide geotechnical expertise.

Assisting will be **Gregg Inman E.I.T.** as Design Engineer and **Zane Summerfield** as Senior Civil Analyst.

Resumes for the team members follow.

John W. Tuggle, P.E., P.S.

Principal In Charge

Mr. Tuggle joined Pentree, Incorporated in 1985 and serves as President and Principal-In-Charge for the firm. His primary responsibility is the oversight of all firm projects. Mr. Tuggle has extensive experience working with various regulatory and funding agencies, and is extremely knowledgeable of contract preparation, analysis and interpretation. He has also recommended and assisted numerous clients in securing the best source of funding to suit their needs.

Mr. Tuggle has been involved with various types of projects including:

- Water Treatment Plants
- Water System Upgrades
- Water Line Extensions
- Wastewater Treatment Plants
- Wastewater System Upgrades
- Wastewater Collection Extensions
- Storm Water Management
- Industrial Park Site Development
- Subdivision Development
- Highways and Roads
- Access Roads

Education:

B.S. Civil Engineering Technology 1982, Bluefield State College

Active Registrations:

Professional Engineer, 1993, #011845, State of West Virginia

Professional Engineer, 2011, #049260, State of Virginia

Professional Surveyor, 1995 #1176, State of West Virginia

Project Experience:

Town of Rainelle Meadow River Overflow/Bypass Channel and Sewell Creek Obstruction Projects - Principal -In_Charge

City of Oak Hill Sanitary Board Oak Hill Drainage Projects Phases I, II and III; Principal-In-Charge

Ravencliff-McGraws-Saulsville Public Service District - R.D. Bailey Regional Water System Regional Water System - Principal-In-Charge

Berkeley County Public Service Sewer District Baker Heights Wastewater Treatment Plant, Inwood Wastewater Treatment Plant, Ecolab and Apache Pump Station – Principal-In-Charge

Jefferson County Public Service District Breckenridge Pump Station, NPDES Permit Renewal and District Plan Review; Mountain Water Project - Principal-In-Charge

City of Mount Hope Kilsyth Utility Extension; Wastewater Treatment Plant Upgrade - Principal-In-Charge

McDowell County Prison Site Development - Principal-In-Charge

Gauley River Public Service District Twentymile and Route 39 / Peters Creek Water Line Extension Project – Project Manager, Contract and Construction Administration

Cowen Public Service District Camden Water Treatment Plant Upgrade and Water Line Extension Project; Sanitary Sewer Line Extension Projects – Project Manager, Contract and Construction Administration

Robert D. Hazelwood, P.E., P.S.

Vice President / Quality Control

Mr. Hazelwood joined Pentree, Incorporated in 1979 and will serve as QC/QA for the Luthy Portal Project. In this capacity, his primary responsibility is to provide oversight for the design process. Additionally, Mr. Hazelwood has extensive knowledge working with AML.

Education:

B.S. Civil Engineering, 1975 West Virginia Institute of Technology

M.S. Sanitary Engineering, 1976 Virginia Polytechnical Institute

Active Registrations:

Professional Engineer, 1980, #008452, State of West Virginia

Professional Surveyor, 1995, #1179, State of West Virginia

Project Experience:

Ravenscliff-McGraws-Saulsville PSD - Eight separate water projects totaling \$22 million dollars over a 25 year period - Project Manager

Eastern Wyoming PSD Mullens Wyco Water Project Water Treatment Plant, Water Storage Tanks, Water Line Extension; Itmann Bud Mountain Water Extension and Water Storage Tanks - Project Manager

Red Sulphur Springs PSD Various Sanitary Sewer and Water Projects – Project Manager

Edray Technical Park Site Design - Project Manager

Fountain Springs Industrial Park Site Design - Project Manager

Gap Mills PSD Water Project - Project Manager

Town of Davy Water Extension Project - Project Manager

Town of Anawalt Water Upgrade - Project Manager

R. Gary Shields, P.E., P.S.

Survey Department Director

Mr. Shields joined Pentree, Incorporated in 2003 and serves as Survey Director for the firm. Prior to his employment with Pentree, Mr. Shields worked as an Independent Licensed Land Surveyor. Currently, he supervises, assigns and reviews all of Pentree, Incorporated's survey activities.

Mr. Shields is extremely skilled in various types of surveys including, but not limited to:

- Control Surveys
- Topographical Surveys
- Boundary Surveys
- Easement Surveys
- Construction Layout
- GPS

In addition to Mr. Shields's experience as a surveyor, he is a Licensed Professional Engineer. In this capacity he is knowledgeable in the planning and design of storm water management systems, potable water systems and sanitary sewer systems. Furthermore, his experience encompasses preparation of specifications, permits and plans, and providing construction inspection for subdivision developments.

Education:

B.S. Civil Engineering Technology, 1980 Bluefield State College

Active Registrations:

Professional Engineer, 1990 #10786 State of West Virginia

Professional Surveyor, 1982 #766 State of West Virginia

Professional Surveyor, 1986 #1545 State of Virginia

Project Experience:

AEP - Multiple Boundary and Topographical Survey and Control Stakeout Projects covering Southern West Virginia and Virginia

PATH – survey manager for the expansion of the John Amos Power Plant Substation and associated transmission lines. This is a joint project of American Electric Power and Allegheny Power Glenfield Subdivision, Mercer County, WV – Survey Manager for lot and utility design and layout Rahall Technology Center, Greenbrier County, WV – Survey Manager for elevation and location survey

Midvol, Mercer and McDowell Counties, WV – Survey Manager for GPS control network for aerial mapping of 34,000 acres of coal reserves

McKenzie Company, Greenbrier County, WV – Project oversight of boring operation into abandoned mine for AML mine reclamation

Gregg Inman, E.I.T.

Design Engineer

Professional Responsibilities:

Mr. Inman joined Pentree, Incorporated in 2005 and serves as Staff Engineer and Chief Technician for the firm. In this capacity he has a variety of responsibilities including, but not limited to:

- Utility Design
- Drafting
- Site Design
- Permitting
- Specifications
- Technical Writing

Education:

B.S. Civil Engineering Technology – 2005 Bluefield State College

Active Registrations:

Registered EIT – State of West Virginia

Project Experience:

Eastern Wyoming PSD Mullens-Wyco Water Treatment Plant – Drafting, Design
Greenbrier County PSD #2 Russellville Road Water line Extension - Funding applications and Cost Estimates
Town of Davy Asco Water Line Extension – Design
McDowell County PSD Big Sandy Water Project - Design
Glen White / Trap Hill PSD Water Line Extension Project (Phase I & II) - Design
Gauley River PSD - Smith Branch Emergency Water Project – Design
Town of North Fork Water Line Extension Project – Design
Page-Kincaid PSD Ingram Branch Sewer Extension – Package Plant design
Allegheny Electric Power – McGraw Substation – Site Development and Grading, Design
Berkeley County Public Service Sewer District – Opequon and Baker Heights Pump Stations - Design
City of Oak Hill Lochgelly Road Sanitary Sewer Relocation - Design
Fort Chiswell Wastewater Treatment Plant – CADD Design
Ecolab - Sludge building Design
AEP Projects - Various - Permits, Grading, Construction Plans

J. Zane Summerfield

Senior Civil Analyst

Mr. Summerfield joined Pentree, Incorporated in 1998 and serves as Senior Civil Analyst for the firm. He is responsible for the analysis of clients' existing data to determine their current situation. Mr. Summerfield also prepares facility plans, engineering reports, and specifications and plan sets. Additionally, Mr. Summerfield provides general design assistance, permit preparation and environmental reporting. Prior to his current position with the firm, Mr. Summerfield served as lead designer on several wastewater projects with other firms having a total work experience of thirty years.

Education:

B.S. Mining Engineering 1982, West Virginia Institute of Technology

A.S. Mining Engineering 1976, West Virginia Institute of Technology

AUTOCAD 1992, Carver Career Center

Project Experience:

Jefferson County PSD – Project Manager/ Lead Designer for a 1.0 MGD Biological Nitrogen Removal Membrane BioReactor WWTP. Preparation of construction drawings and contract documents, permit applications, hydraulic calculations, engineering reports, economic modeling, funding applications

City Of Mount Hope – Analysis of WWTP performance, facility plan for the upgrade of the existing oxidation ditch wastewater treatment plant and collection systems for outlying communities, funding applications, preparation of construction drawings and contract documents, permit applications. Engineering liaison with funding agencies and City Council, construction project management

Ecolab Pretreatment WWTP Upgrade - Analysis of WWTP performance, engineering reports and preliminary design for the upgrade of the existing 0.05 MGD to 0.1 MGD pretreatment facility, assisting client with budgeting documents

Elkhorn PSD Facility Plan – Facility Plan detailing options for compliance with existing rules and regulations, research, analysis, preliminary design, cost estimate, engineering reports, funding applications

Berkeley County Public Sewer Service District Inwood Wastewater Project – Lead designer for 60miles of gravity sewer system and 5 pump stations to serve a new wastewater treatment plant, analysis, design reports and value engineering

Berkeley County Public Sewer Service District Baker Heights & Inwood WWTP Upgrades - Analysis of the 0.90 MGD and 0.75 MGD WWTP's, projection of growth, documentation of existing performance, analysis of impact of the Chesapeake Bay Agreement, recommendation of upgrades to triple the capacity of both plants

Prior to joining Pentree, Mr. Summerfield worked for other consulting firms in West Virginia. His work experience included Mine Permitting, design and permitting of mountaintop and contour surface and deep mine sites including high wall miner and deep mines in known acid producing seams, geological mapping and reports, reserve analysis, and economic modeling

YOGESH S. REGE, P.E.
SENIOR ASSOCIATE
GEOTECHNICAL DEPARTMENT MANAGER

PROFESSIONAL EXPERIENCE

Mr. Rege has over 14 years of experience in the geotechnical engineering discipline. He manages the geotechnical engineering department in Charleston, West Virginia office. Mr. Rege performs geotechnical engineering work to include: Soil test borings, description and laboratory testing of soil and rock samples, correlation, development and analysis of geotechnical engineering data in accordance with established professional standards; preparation of detailed reports based on geotechnical engineering principles and laboratory test results incorporating one or more of these principles into the design and analysis of shallow and deep foundations; slope stability and settlement analysis; landslide evaluation and correction measures; design of temporary and permanent earth retention wall systems and design of flexible and rigid pavement systems; performance of finite element modeling of long-term behavior of culvert-soil system considering soil-structure interaction; analysis of groundwater and seepage related problems; geotechnical applications with geosynthetics; and design of landfills and wastewater lagoons using clay and synthetic liners.

Also performs coordination and management of both geotechnical subsurface investigation projects and construction testing and inspection projects.

PROJECT EXPERIENCE

Representative projects on which Mr. Rege has performed geotechnical subsurface investigation include the following:

- Project manager and engineer for an Abandoned Mine Lands (AML) project in McComas, West Virginia. Project involved borings, analyses, laboratory testing and report preparation for remediation of the mine spoils.
- Assisted in mine subsidence assessment of the proposed Melody Mountain commercial development project in Ashland, Kentucky.
- Project manager for a project involving underground mine subsidence mitigation for a bank site in Beckley, WV. Project involved pre and post mine grouting test borings, preparation of mine grouting specifications, preparation of bid package, solicitation of bids and assistance in selection of mine grouting contractor and inspection and support during the grouting process.
- Project manager for a project in Inez, KY consisting of deep strip mine fill material. Remediation involved dynamic compaction of the fill to create a site suitable for

EDUCATION

*M.S., Geotechnical Engineering,
University of Cincinnati,
Cincinnati, Ohio, 1997*
*B.S., Civil Engineering /
Geotechnical Major, University
of Bombay, India, 1994*

REGISTRATIONS

*Professional Engineer:
West Virginia, Ohio & Virginia*

CERTIFICATIONS

*Nuclear Density/Moisture Gauge
Operation*
*OSHA 10-Hour Occupational
Safety and Health Training*
ODOT Bridge Inspection (Level 1)

development.

- Project manager and engineer for a substation project in northern West Virginia consisting of deep strip mine fill material. Remediation involved dynamic compaction of the fill to create a site suitable for development.
- Project manager for a switchyard, substation and transmission line project in southern Pennsylvania northern West Virginia consisting of deep strip mine fill material. Remediation involved dynamic compaction of the fill to create a site suitable for development.
- Responsible for the analysis of the deep foundation (auger cast piles) for the OSU Stadium renovations exterior buildout project.
- Provided deep foundation analyses, recommendations and reports for several Ohio Department of Transportation (ODOT) projects including single and multi-span bridges.
- Responsible for foundation analysis, design and geotechnical report preparation of several above ground storage tanks at refinery in Canton, Ohio.
- Responsible for foundation analysis, design and geotechnical report preparation of several waste water treatment plants and sanitary sewer lines in the state of Ohio.
- Responsible for analysis, design and geotechnical report preparation of several projects for the West Virginia Department of Highways (WVDOT).
- Responsible for foundation analysis, design and geotechnical report preparation of several new schools for the Ohio School Facility Commission.

Representative projects on which Mr. Rege has provided materials testing and inspection services include the following:

Auger Cast Pile Inspection

- Ford Motor Company, 7 Bay Expansion- Sharonville, Ohio
- Cincinnati Enquirer Production Facility Expansion-Cincinnati, Ohio
- OSU Stadium exterior buildout, Columbus, Ohio

Drilled Pier Inspection

- OSU Fisher College of Business-Columbus, Ohio
- International Paper-Cincinnati, Ohio

- University of Cincinnati Pedestrian Bridge-Cincinnati, Ohio

Load Test Inspection

- Canaan Valley Lodge Addition, Davis, WV
- OSU Stadium exterior buildout, Columbus, Ohio
- Science and Technology Building, Ohio University, Athens, Ohio
- U.S. 33 Realignment project, Bridge over Hocking River, Lancaster, Ohio



Representative Projects

Eastern Wyoming PSD

Mullens-Wyco Water Project

Consisted of water distribution system upgrade in the City of Mullens, Nuriva, Itmann and Gulf area. Involved in the upgrade was the construction of a 1,400 gpm water treatment plant, a 225,000 gallon tank and two 545,000 gallon tanks, as well as approximately 112,650 lf of distribution line.

Project Cost \$15 million. Project funding included SCBG, ARC, DWTRF, IJDC, SAP, and DEP/AML.

Itman / Bud Mountain Water Project

The Eastern Wyoming P.S.D. Itman / Bud Mountain Water Project consisted of (1) upgrading the existing water system in Itmann, (2) upgrading a portion of the existing water system in the City of Mullens, and (3) constructing a new water system extension to serve approximately 80 customers in the Bud Mountain area of Wyoming County. With the completion of the project, Eastern Wyoming PSD now serves approximately 1,400 customers with the potential in future phases to serve an estimated 2,500 customers in the eastern part of Wyoming County.

Project Cost: \$10.7 million. Project funding included SCBG, State Digest, Wyoming County Commission, IJDC, and DEP/AML.



Representative Projects

City of Oak Hill Drainage Projects

Pentree, Incorporated provided the City of Oak Hill with a study, preliminary and final design plans, and specifications for management of approximately 2,200 acre watershed which created flooding along the path of Arbuckle Creek and throughout the city limits. The first phase of the project consisted of replacement of eleven culverts totalling 1,252 lineal feet. The new culverts were designed to carry a 50-year flood and alleviate consistent annual flooding along the banks of Arbuckle Creek. Pentree, Incorporated has worked closely with the West Virginia DEP to satisfy Soil Conservation and wetlands concerns. Phase II of the project is in the Virginia Street/ Trump Avenue area of the City as shown in the flood and construction pictures above.



Representative Projects

Gauley River PSD

The Gauley River Public Service District's first expansion project in 1986 consisted of approximately 210 customers, six miles of waterline and one storage tank. In 1993 the District expanded to Dixie, Bintree, Bell Creek and Mt. Olive increasing its customer base from 210 to 540, including the Mt. Olive Correctional Facility (equivalent to approximately 800 users). It increased to 18 miles of pipe, four pump stations and six water storage tanks. In 1998 further expansion came to fruition by extending to the Beech Glen, Jodie, Rich Creek and Swiss areas. This project was one of the first partially funded AML water projects in the state. The system was then 30 miles of pipe, six pump stations and seven tanks. A small extension into the Swiss area further increased the customer base and distribution system in 1999. Also completed is the project that expanded service along Twentymile to Vaughan and along Route 39 to Lyon's Creek, Peter's Creek, Lockwood and Drennen. The District is now comprised of approximately one thousand, one hundred (1,100) customers along with the Mt. Olive Prison, 55 miles of pipe, eight pump stations and ten tanks. Currently, the construction process is well on it's way to extend service along Route 39 from Summersville to Drennen, including White Water Road in Phase I of the Summersville Extension, while Phase II is awaiting permission to bid.



Representative Projects

King Coal / Coalfields Expressway

Study and complete design of final plans for a major new interchange. Study involved four alternative configuration schemes for the interchange. Final plans included two additional interchanges, five miles of interstate, expressway - roadway and eleven (11) bridges and required over 6 ½ million cubic yards of excavation.

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE				Attachment "B"
PROJECT NAME: RFQ# DEP15588 Wheatley Branch (Luthy) Portals Design Project Logan County		DATE (DAY, MONTH, YEAR) November 14, 2011	FEIN 55-0483692	
1. FIRM NAME Pentree, Inc.		2. HOME OFFICE BUSINESS ADDRESS 1428 Main St./P.O. Box 1309 Princeton, WV 24740		3. FORMER FIRM NAME Bennett-Nave-Thomas
4. HOME OFFICE TELEPHONE (304) 431-7800		5. ESTABLISHED (YEAR) 1904	6. TYPE OWNERSHIP Individual Partnership Joint-Venture	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES NO X
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE 1428 Main St/P.O. Box 1309/Princeton, WV 24740/304-431-7800/John Tuggle/3				
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM John W. Tuggle, P.E., P.S. Principal in Charge Robert D. Hazelwood, P.E., P.S. Vice President		8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS		
9. PERSONNEL BY DISCIPLINE				
3 ADMINISTRATIVE	— ECOLOGISTS	— LANDSCAPE ARCHITECTS	— STRUCTURAL ENGINEERS	
— ARCHITECTS	— ECONOMISTS	— MECHANICAL ENGINEERS	4 SURVEYORS	
7 BIOLOGIST	- ELECTRICAL ENGINEERS	— MINING ENGINEERS	— TRAFFIC ENGINEERS	
— CADD OPERATORS	- ENVIRONMENTALISTS	2 PHOTOGRAMMETRISTS	— OTHER	
— CHEMICAL ENGINEERS	— ESTIMATORS	— PLANNERS: URBAN/REGIONAL		
4 CIVIL ENGINEERS	— GEOLOGISTS	1 SANITARY ENGINEERS		
6 CONSTRUCTION INSPECTORS	— HISTORIANS	— SOILS ENGINEERS		
— DESIGNERS	— HYDROLOGISTS	— SPECIFICATION WRITERS	28 TOTAL PERSONNEL	
— DRAFTSMEN				
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: <u>3</u> *RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.				
10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? ☐ YES ☐ NO NOT APPLICABLE				

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

[illegible]

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

YES Description and Number of Projects: Pentree Incorporated has completed design for 13 partially impacted AML water projects: among these include the Keyrock Water Extension Project for Ravenclyff-Mcgraws-Saulsville PSD in Wyoming County and Mullens-Wyco Water Project for the Eastern Wyoming PSD also in Wyoming County. The EWPSD project was the 2006 EPA Region 9 Award winning project for sustainable public health protection encompassing seven failing, flooded and abandoned water systems. Additionally, we provided engineering services for the first in the state of West Virginia partially impacted AML project for Gauley River PSD with the Iodie Waterline Extension Project in 1998.

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects: Pentree, Incorporated will utilize the materials and testing labs of our sub-consultant HC Nutting/Terracon.

NO

C. Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects: Through our work on water system projects for various PSD's and Municipalities, we have developed hydraulic modeling of systems, and use Kentucky Pipe 2010 for our AML design team analyses.

NO

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

YES Description and Number of Projects: Every water and wastewater project Pentree has designed in the last 35 years has been photogrammetrically produced by our in-house photogrammetry department.

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 Pentree, Incorporated has designed over 58 water line extension and replacement projects in the past 46 years of business. Projects include lines, booster stations, water treatment plants and storage facilities.

Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design? NO

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Tuggle, John W. P.E., P.S. President		YEARS OF AML DESIGN EXPERIENCE: 10	YEARS OF AML RELATED DESIGN EXPERIENCE: 25 YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 25
Brief Explanation of Responsibilities Mr. Tuggle serves as President of Pentree, Incorporated. Mr. Tuggle is Principal in Charge for public utility projects including sanitary sewer, water and storm water management. His primary responsibility is the oversight of all firm projects. In this capacity he is responsible for feasibility studies and design, regulatory and funding assistance for state, federal and private clients. Additionally, he has extensive experience working with funding and regulatory agencies in conjunction with projects. In the capacity of Principal-In-Charge, for this AML design project, he will work closely with the Project Manager to ensure timeliness of the projects, client satisfaction and oversee budgetary aspects.			
EDUCATION (Degree, Year, Specialization) B.S., Bluefield State College, 1985 - Civil Engineering Technology			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	
West Virginia Rural Water Association		P.E. 1993 - West Virginia #11845 P.S. 1995 - West Virginia #1176	
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	
Hazelwood, Robert D. P.E., P.S. Vice President		YEARS OF AML DESIGN EXPERIENCE: 9	YEARS OF AML RELATED DESIGN EXPERIENCE: 31 YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 31
Brief Explanation of Responsibilities Robert D. Hazelwood, P.E., P.S. Vice President of Pentree, Inc. will serve as Project Manager / Project Engineer. His major responsibility will be for project oversight of all design and construction aspects. Mr. Hazelwood has extensive experience in water line extension projects throughout West Virginia, particularly Southern West Virginia. Additionally, Mr. Hazelwood was/is Project Manager/Project Engineer for the Mullens/Wyco Water System Upgrade, the Keyrock Water Project, Immann/Bud Mountain Water Project, Glen Fork-Sabine Water Project and the R.D. Bailey Regional Water System and Extension Project - all of which have extensive funding with the WVDEP AML. As such, Mr. Hazelwood is well versed in AML reporting and deadline requirements.			
EDUCATION (Degree, Year, Specialization) M.S., Sanitary Engineering, 1976 - Virginia Polytechnic Institute B.S., Civil Engineering, 1975 - West Virginia Technical Institute			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	
WEST VIRGINIA RURAL WATER ASSOCIATION		P.E. 1980 - WEST VIRGINIA #008452 P.S. 1995 - WEST VIRGINIA #1179	

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		
Shields, Robert G. (Gary) P.E., P.S. Survey Department Manager		YEARS OF AML DESIGN EXPERIENCE: 0	YEARS OF AML RELATED DESIGN EXPERIENCE: 0	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 8
Brief Explanation of Responsibilities: Mr. Shields joined Pentree, Incorporated in 2003 and serves as Survey Manager for the firm. Prior to his employment with Pentree, Mr. Shields worked as an Independent Licensed Land Surveyor. Currently, he supervises, assigns and reviews all of Pentree, Incorporated's survey activities. In addition to being a Professional Surveyor, Mr. Shields is also a registered Professional Engineer.				
EDUCATION (Degree, Year, Specialization) B.S., 1982, Civil Engineering Technology, Bluefield State College				
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS West Virginia Society of Professional Surveyors American Society of Civil Engineers		REGISTRATION (Type, Year, State) Professional Engineer, 1990, State of West Virginia #10786 Professional Surveyor, 1982 State of West Virginia #766 Professional Surveyor, 1986 State of Virginia #1545		
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		
Inman, Gregg E., E.I.T.		YEARS OF AML DESIGN EXPERIENCE: 4	YEARS OF AML RELATED DESIGN EXPERIENCE: 4	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 6
Brief Explanation of Responsibilities: Mr. Inman joined Pentree in 2005 and serves as Staff Design Engineer and Chief Technician for the firm. In this capacity he has a variety of responsibilities including drafting, utility design, site design, permitting, specifications and technical writing.				
EDUCATION (Degree, Year, Specialization) B.S., 2005, Civil Engineering Technology, Bluefield State College				
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State) Registered E.I.T. - State of West Virginia		

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.) Summerfield, J. Zane, Senior Civil Analyst	YEARS OF AML DESIGN EXPERIENCE: 15	YEARS OF AML RELATED DESIGN EXPERIENCE: 15	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12
Brief Explanation of Responsibilities: Mr. Summerfield will provide expertise and analysis for the drainage and re-vegetation aspect of this project. Having worked with for the mining industry as a permit specialist and hydrology analyst, his combination of technical and design capabilities will enhance the overall depth of the design team.			
EDUCATION (Degree, Year, Specialization) A.S., 1976 West Virginia Institute of Technology, Mining Engineering B.S., 1982 West Virginia Institute of Technology, Mining Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF 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)	

We perform our work utilizing the most current methods and equipment available.

SURVEY

Our survey work is accomplished with global positioning systems (GPS) and electronic distance measuring (EDM) survey stations with data gathering capabilities. This equipment includes:

- | | |
|--------------------------|---------------------------|
| Total Station | Nikon DTM-420 |
| Total Station | Nikon DTM-522 |
| Auto Level | Topcon AT-53 |
| Auto Level | Topcon AT-F2 |
| Magnetic Locator | Schonstedt GA-52-Cx |
| Magnetic Locator | Dunham&Morrow DML 2000 |
| Data Collector | XYZ Works Fieldbook |
| Data Collector | Trimble TSC2 |
| Data Collector | SMI Allegro CX |
| GPS | Ashtech Pro-Mark 2 |
| GPS | Single Frequency |
| GPS | w / three receivers |
| Transit | 1' K&E |
| Theodolite | Wild T-2 |
| GPS | R8 Trimble Dual Frequency |
| GPS | Base |
| GPS | Rover |
| GIS Data Collector | Trimble Nomad |
| Tripods (5) | |
| Prisms (16) | |
| Fiberglass Tape 200' (3) | |
| Fiberglass Tape 100' (2) | |
| Bipods (2) | |
| GPS Pole (2) | |
| Level Rods 25' (2) | |
| Radio (2) | Kenwood TK-2200 Protalk |
| Tri-Brach (3) | |
| Survey Compass (2) | |

DESIGN CAD CAPABILITIES

AutoCAD Civil 3D Land Desktop Companion 2008 and Microstation V8 software is utilized. Additionally, equipment includes a large format (size E) plotter and scanner.

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD - WATER DISTRIBUTION PROJECTS

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Keyrock Water Project Wyoming County	Ravenc Cliff-McGraws-Saulsville PSD PO Box 217 McGraws, WV 25875	Preliminary Engineering Reports Review, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$4,300,000	100%
Mullens-Wyco Water Project Wyoming County	Eastern Wyoming PSD PO Box 506 Logan, WV 25601	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$14,587,000	100%
Asco Water Project McDowell County	Town Of Davy PO Box 243 Davy, WV 24828	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$10,000,000	100%
Spanishburg Water Extension Phase 2B Project Mercer County	Lashmeet PSD PO Box 189 Lashmeet, WV 24733	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$1,898,200	100%

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD - WATER DISTRIBUTION PROJECTS

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Jesse Matheny Water Project* Wyoming County	Ravenclyff-McGraws-Saulsville PSD PO Box 217 McGraws, WV 25875	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$6,164,000	100%
Glen White Trap Hill Water Phase I Raleigh County	Glen White Trap Hill PSD PO Box 100 Fairdale, WV 25839	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$5,315,000	100%
Itmann/Bud Mountain Water Project Wyoming County	Eastern Wyoming PSD PO Box 506 Logan, WV 25601	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$3,064,000	100%
Jesse Matheny Water Ph II Project * Wyoming County	Ravenclyff-McGraws-Saulsville PSD PO Box 217 McGraws, WV 25875	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$2,027,000	100% Design

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD - WATER DISTRIBUTION PROJECTS

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Page-Kincaid Water Project Fayette County	Page-Kincaid PSD PO Box 165, Hwy 61 Kincaid, WV 25119	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$2,400,000	100%
Greenville Water Project Monroe County	Red Sulphur PSD PO Box 697 Peterstown, WV 24963	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$2,728,000	75%
Summersville Water Line Extension Nicholas County	Gauley River PSD PO Box 47 Swiss, WV 26690	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	Phase I \$4,649,702 Phase II \$2,322,890 Phase III \$2,341,622	Phase I is under construction Phase II is 100% design Phase III is 100% design
Big Sandy Water Project* McDowell County	McDowell County PSD HC 31, Box 436 Welch, WV 24801	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications	\$8,714,120	100% Design
Glen White Trap Hill Water Phase II * Raleigh County	Glen White Trap Hill PSD PO Box 100 Fairdale, WV 25839	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$5,376,000	100% Design
*Represents partially AML funded projects				

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A CONSULTANT TO OTHERS NON APPLICABLE

[illegible]

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Twentymile Water Project Fayette County	Gauley River PSD PO Box 47 Swiss, WV 26690	\$4,600,000	2005	YES
Virginia Street Sidewalks Fayette County	City Of Oak Hill PO Box 1245 Oak Hill, WV 25901	\$242,311	2006	YES
Fort Chiswell Wastewater Treatment Plant Upgrade Ph I&II Wyth County, VA	Wythe County Board Of Supervisors 340 South 6 th St Wytheville, VA 24382	Phase I - \$376,000 Phase II - \$4,140,655	2006 2008	YES
Upper Glade Sewer Project Webster County	Cowen PSD PO Box 465 Cowen, WV 26026	\$5,085,876	2007	YES
City Of Oak Hill Sidewalk Repairs Fayette County	City Of Oak Hill PO Box 1245 Oak Hill, WV 25901	\$269,482	2008	YES
Oak Hill Drainage Phase II Fayette County	City Of Oak Hill PO Box 1245 Oak Hill, WV 25901	\$736,870	2008	YES
Gap Mills Water Project Monroe County	Gap Mills PSD PO Box 117 Gap Mills, WV 24941	\$1,898,000	2008	YES
Asco Water Project McDowell County	Town Of Davy PO Box 246 Davy, WV 24828	\$1,500,000	2009	YES
Inwood Wastewater Treatment Plant Upgrade Berkeley County	Berkeley County PSSD PO Box 944 Martinsburg, WV 25401	\$7,600,000	2009	YES
Baker Heights Wastewater Treatment Plant Upgrade Berkeley County	Berkeley County PSSD PO Box 944 Martinsburg, WV 25401	\$8,730,919	2009	YES
Ecolab Waterwater Treatment Plant Upgrade Berkeley County	Ecolab 942 Baker Road Martinsburg, Wv 25405	\$1,778,000	2009	YES
Kilsyth Wastewater Extension And Plant Upgrade Fayette County	City Of Mount Hope PO Box 151 Mount Hope, WV 25880	\$4,061,000	2009	YES
Page Kincaid Sewer Project Fayette County	Page-Kincaid PSD PO Box 165, Hwy 61 Kincaid, WV 25119	\$10,800,000	2010	YES

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
AML CONSULTANT QUALIFICATION QUESTIONNAIRE**

Attachment "B"

PROJECT NAME Wheatley Branch (Luthy) Portals Project DEP15588		DATE (DAY, MONTH, YEAR) 11/14/2011	FEIN 42-1249917
1. FIRM NAME Terracon Consultants, Inc.	2. HOME OFFICE BUSINESS ADDRESS 18001 W. 106 th Street, Ste. 300, Olathe, KS 66061	3. FORMER FIRM NAME H.C. Nutting	
4. HOME OFFICE TELEPHONE 913-599-6886	5. ESTABLISHED (YEAR) 1965	6. TYPE OWNERSHIP Individual Partnership Corporation Joint-Venture	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES <u>NO</u>
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE 912 Morris Street, Charleston, WV 25301, 304.344.0821, John T. Blair (Office Manager). 3 <u>See attached office list</u>			

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM M. Gayle Packer, David R. Gaboury, Dennis E. Whited, Kevin F. Langwell, Michael J. O'Grady, Michael E. Covert	8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS
--	--

9. PERSONNEL BY DISCIPLINE	
401 ADMINISTRATIVE 4 ARCHITECTS 11 BIOLOGIST 26 CADD OPERATORS 6 CHEMICAL ENGINEERS 8 CIVIL ENGINEERS 193 CONSTRUCTION INSPECTORS — DESIGNERS 1 DRAFTSMEN	— LANDSCAPE ARCHITECTS 10 MECHANICAL ENGINEERS — MINING ENGINEERS — PHOTOGRAMMETRISTS — PLANNERS: URBAN/REGIONAL — SANITARY ENGINEERS 265 SOILS ENGINEERS — SPECIFICATION WRITERS 4 STRUCTURAL ENGINEERS — SURVEYORS — TRAFFIC ENGINEERS OTHER 2700 TOTAL PERSONNEL

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
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11. OUTSIDE KEY CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Qualification Questionnaire".

[illegible]

12.	A	Is your firm experienced in Abandoned Mine Land Remediation/Mine Reclamation Engineering?
	X	YES Description and Number of Projects: HCN has extensive experience on site grading and landslide repair projects, many of them associated with AML projects. HCN routinely performs mine subsidence investigations for the Ohio Mine Subsidence Insurance Underwriting Association, and has designed several mine grouting programs to mitigate the effects of future mine subsidence in Kentucky, Ohio and West Virginia.
	B.	Is your firm experienced in Soil Analysis?
	X	YES Description and Number of Projects: Over 80 years experience on thousands of projects in Geotechnical, Environmental and Materials Engineering.
		NO
	C.	Is your firm experienced in hydrology and hydraulics?
	X	YES Description and Number of Projects: Commercial, industrial, and residential storm water drainage projects for landfill development and closure, dam/lake spillway structures, site development drainage design, erosion and sediment control, stormwater pollution prevention plans. Dam spillway structures.
		NO
	D.	Does your firm produce its own Aerial Photography and Develop Contour Mapping?
		YES Description and Number of Projects: _____
	X	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 Description and Number of Projects: _____
	X	NO
	F.	Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?
		YES Description and Number of Projects: _____
	X	NO

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Bruce, Rome E.	0	30	0
Brief Explanation of Responsibilities Responsibilities include conceptual and final design, report and drawing preparation, development of construction specifications, construction bidding and contract documents, coordination and management of construction observation, volume and cost estimate calculations, hydrologic analysis, and hydraulic analysis of drainage channels, spillways, and detention ponds.			
EDUCATION (Degree, Year, Specialization) Bachelor of Science, CEE, University of Wisconsin-Madison 1979 A.A.S., Civil, Gateway Technical Institute, Racine, WI 1974			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	
American Society of Civil Engineers Solid Waste Assoc. of North America		Professional Engineer in Indiana 1991, Kentucky 1995, Michigan 1988, Ohio 1988, and Wisconsin 1982	
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 EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Yogesh S. Rege, P.E.	1	14	0
Brief Explanation of Responsibilities Senior Consultant West Virginia Experience in Mining Engineering, Geotechnical Engineering, Groundwater Engineering, and Waste Management.			
EDUCATION (Degree, Year, Specialization) M.S., Geotechnical Engineering, University of Cincinnati, Cincinnati, Ohio, 1997 B.S., Civil Engineering / Geotechnical Major, University of Bombay, India, 1994			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	
Association of Engineering Geologists American Institute of Professional Geologists		P.E., 2005, West Virginia/P.E., 2001, Ohio/P.E., 2007, Virginia	

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

AutoCAD 2007 / Land Development Desktop

Microstation Version 8

Microsoft 2003 Office Suite – (Word, Excel, Access, PowerPoint, Publisher)

Slope Stability Analyses (Visual Slope, STABL, ReSLOPE, etc.)

SHAKE2000 – Seismic Site Response Analyses

PLAXIS – Finite Element Analysis Software

AutoCAD Workstations (4)

Desktop Computers (100+)

Laptop Computers (200+)

Laser Printers (50)

Plotters – HP750C (Color) (3) OCE TDS450 Plotter – Large Format Flat Bed Scanner (1 ea.)

FLAC 3D Finite Difference Analysis Software

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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
US 65 Iowa Falls Bridge	Iowa Department of Transportation	Retaining Wall Design	2M	0%
TOTAL NUMBER OF PROJECTS: 1			TOTAL ESTIMATED CONSTRUCTION COSTS: \$2M	

16. CURRENT 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
Coalfields Expressway, Helen, WV	Geotechnical Engineering Analysis and Design	WVDOH, M. C. S & T		Unknown	\$29,000
Appalachian Corridor H - Section 6, Moorefield, WV	Geotechnical Engineering Analysis and Design	WVDOH c/o Michael Baker, Jr., Inc.		Unknown	\$14,000
Corridor H - Bismarck to Forman Section, Bismarck, WV	Geotechnical Engineering Analysis and Design	WVDOH c/o Chapman Technical Group		Unknown	\$14,000
Corridor H Bismarck RTO Form, Grant County, WV	Geotechnical Engineering Analysis and Design	WVDOH C/O Buchart Horn, Inc.		Unknown	\$150,000
Six Proposed Design Build Bridges, Charleston, WV	Geotechnical Engineering Analysis and Design	WVOH c/o Wilbur Smith Associates		Unknown	\$30,000
WV 10 - Dabney to Stollings, Dabney, WV	Geotechnical Engineering Analysis and Design	WVDOH C/O Chapman Technical Group		Unknown	\$97,000
South Branch Bridge Abutment 1 Slope Protection, Moorefield, WV	Geotechnical Engineering Analysis and Design	WVDOH C/O Michael Baker, Jr., Inc.		Unknown	\$23,000

17. C LETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM AS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Proposed New Dormitories, Mine Subsidence Assessment and Grouting Specifications	Hocking College, Nelsonville, Ohio	\$110K	2006	Yes
Mine Grouting Specifications for the Proposed Marion County 911 Building, Fairmont, WV	WVDOH C/O Burgess & Niple 4424 Emerson Avenue Parkersburg, West Virginia 26104	Unknown	2006	No
Ventilation Tunnel Remediation and Sealing, Marathon Fuel Terminal, Covington, KY	Marathon Petroleum, LLC Finlay, Ohio	Unknown	2006	Yes
Mine Subsidence Assessment, Melody Mountain Development Project, Ashland, KY	R.G. Properties 8163 Old Yankee Road Suite B Dayton, Ohio 45458	\$200K	2006	No
Peoples Bank of Mullens, Mine Subsidence Assessment and Preparation of Grouting Specifications	Peoples Bank of Mullens P.O. Box 817 Mullens, WV 25882	Unknown	2007	No
James Rumsey Potomac River Bridge Shepherdstown, West Virginia and Sharpsburg, Maryland	West Virginia DOT	\$600K	2006	Yes
St. Anthony Falls I-35W Bridge St. Anthony Falls, Minnesota	Minnesota DOT	\$40,000	2007	Yes

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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
McComas AML Coal Mine Refuse Pile Mercer County, West VA	West Virginia Office of Abandoned Mined Lands and Reclamation.	\$28,000	2008	Yes	Stafford Consultants Incorporated, Princeton, WV
Mine Subsidence Assessment, Mountain View High School Addition, Welch, WV	Mountain View High School	Unknown	2006	Yes	ZMM, Inc.
Highwall Stability Assessment and Rock Fall Protection Design, Welch, WV	U.S. Bureau of Prisons	\$172K	2006	Yes	DMJM Harris
Stabilization of Mine Spoil by Dynamic Compaction for Substations and Transmission Towers.	GenPower Longview Power Project Maidville, WV and Dunkard, PA	Unknown	2006	Not Yet	Beta Engineering
Marmet Locks and Dam Construction Belle, West Virginia	USACE	\$100K	2008	Yes	Kokosing Fru-Con

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: [Signature] Title: Office Manager-Charleston, WV

Printed Name: John T. Blair

Date: 3/17/2010

