

West Virginia

Department of Environmental Protection  
Office of Abandoned Mine Lands and Reclamation



Expression of Interest

Engineering Design Services and Construction Monitoring



Witcher Creek Portals and Refuse Design  
Project

Kanawha County, West Virginia



DEP15601





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  
 DEP15601

PAGE  
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:  
 GUY NISBET  
 304-558-8802

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
01/26/2012				

BID OPENING DATE: 03/15/2012 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-29		
<p>WITCHER CREEK PORTALS &amp; REFUSE DESIGN</p> <p>EXPRESSION OF INTEREST</p> <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 WITCHER CREEK PORTALS &amp; REFUSE PROJECT IN KANAWHA COUNTY, WEST VIRGINIA PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THIS CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p>ANY INDIVIDUAL SIGNING THIS BID IS CERTIFYING THAT: (1) HE OR SHE IS AUTHORIZED BY THE BIDDER TO EXECUTE THE BID OR ANY DOCUMENTS RELATED THERETO ON BEHALF OF THE BIDDER, (2) THAT HE OR SHE IS AUTHORIZED TO BIND THE BIDDER IN A CONTRACTUAL RELATIONSHIP, AND (3) THAT THE BIDDER HAS PROPERLY REGISTERED WITH ANY STATE AGENCIES THAT MAY REQUIRE REGISTRATION.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>[Signature]</i>	304-431-7800	March 13, 2012
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
President	55-0483692	

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



1428 Main Street  
P.O. Box 1309  
Princeton, WV  
24740  
304-431-7800  
304-425-0445 (f)

March 13, 2012

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

**RE: Expression of Interest – Witcher Creek Portals and Refuse Design  
DEP15601**

Dear Mr. Nisbet:

Pentree, Incorporated is pleased to have the opportunity to provide the West Virginia Department of Environmental Protection with our high standard of professional engineering design services on the Witcher Creek Portals and Refuse Design project in Kanawha County.

Along with the knowledge of AML procedures gained from the completed construction of the Itman / Bud Mountain Water Project for Eastern Wyoming County P.S.D. (Wyoming County) and the extensive drainage design and construction monitoring we have provided the City of Oak Hill, we offer our experience with re-vegetation, demolition and stream bank protection.

Following the instructions outlined in the RFQ, this proposal contains information regarding Pentree, Incorporated's history, experience and professional qualifications along with the required DEP/AML Consultant's Confidential Qualifications Questionnaire, and an affidavit stating Pentree, Incorporated has no debt owed to the State of West Virginia and the Related Project Experience Matrix.

We thank you for your consideration of our qualifications and look forward to the opportunity to present our qualifications and project methodology to you in person.

Sincerely,  
PENTREE, INCORPORATED

JOHN W. TUGGLE, P.E., P.S.  
President/ Principal-In-Charge

JWT/jhv  
enclosures



Phone: 304-431-7800  
Fax: 304-425-0445  
E-mail: engineer@pentree.com

March 13, 2012

1428 Main Street  
P.O. Box 1309  
Princeton, West Virginia 24740

# Witcher Creek Portals and Refuse Design DEP15601

for the West Virginia Department of Environmental Protection  
Office of Abandoned Mines and Reclamation

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## *History of the Firm*

Pentree, Incorporated began providing utility-based engineering services in 1965 when the Pentree Division of Bennet-Nave-Thomas incorporated. Originally based in Oak Hill, in 1973 a branch office was opened in Princeton.

Since then our firm has worked to maintain state of the art engineering means and methods as well as provide traditional oversight and technical assistance. We strive to provide the most efficient and accurate design for site development, construction monitoring, mapping, transportation, wastewater, water and surveying services. Additionally, Pentree offers the only in-house mapping and photogrammetry service in the State of West Virginia.

For over forty seven years, we have provided our technical expertise in all aspects of engineering and field services.

Since 1971 Pentree, Incorporated has offered the only in-house photogrammetry service in the state of West Virginia



## *Experience*



Over the past century, Pentree, Incorporated has provided design and construction monitoring services for utility, site development, highway, bridge, airport and community enhancement projects throughout Southern West Virginia.

On the following pages are examples of specific recent projects that represent our abilities with drainage and stabilization projects that are comparable in scope of services similar to the needs of the WVDEP for the Witchcer Creek Portal and Refuse Design project.



## *Experience*

*King Coal and  
Coalfields Expressway  
Interchange  
McDowell and Wyoming Counties*

*Owner/Contact:*

*West Virginia*

*DOH*

*Ali Sadeghian, Project Manager*

*Division of Highways*

*Bldg 05 Room A-317*

*State Capital Complex*

*Charleston, WV 25305*

*304-558-9745*



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.**



## *Experience*

*City of Oak Hill*

*Phased Drainage*

*Projects*

*Fayette County*

*Owner/Contact:*

*Bill Hannabass, City Manager*

*City of Oak Hill*

*P.O. Box 1245*

*Oak Hill, WV 25901*

*304-469-9541*



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 construction picture above.

Pentree has now completed Phases I, II and III of these drainage improvements, with plans to continue improvements as funding becomes available.





## *Experience*

*Eastern Wyoming  
Public Service District  
Itman Bud Mountain  
Water Project  
Owner/Contact:  
William Baisden Chair  
EWPSD  
P.O. Box 506  
Logan, WV 25601  
304-946-2641*



Project consists of five contracts to improve and upgrade the Eastern Wyoming Public Service District's water system. This project includes a Water Treatment Plant, Water Storage Tanks, an upgrade of the Lower Gulf Water System and an upgrade of the Upper Gulf Water System. The design called for the closure of four mine portals, one of which was sealed with the capacity to continue to provide a raw water source for the District. The other three portals were wet sealed with allowance for controlled overflow. This project was partially AML Funded.



## Experience

*Inwood Watershed Project*

*USDA/NRCS*

*Eastern Panhandle*

*Soil Conservation Service*

*Owner/Contact:*

*Donald Dirting*

*Conservation Project*

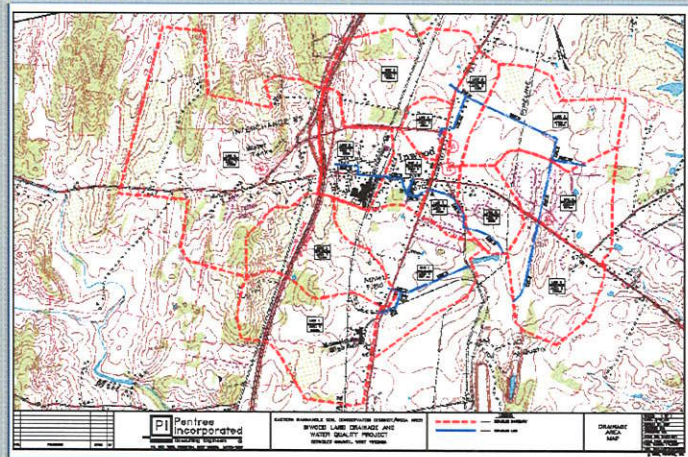
*Specialist*

*State of West Virginia*

*Soil Conservation Agency*

*1450-1 Edwin Miller Blvd.*

*Martinsburg, WV*



The Study involved an 827 acre area just south of the Youth Fairgrounds in Berkeley County, WV. The project was divided into three phases to allow for staged funding. The project includes the construction of drainage piping, drop inlets, headwalls and open channel ditch lines to carry the storm water away from the area during and after a storm event. Professional services for this project are closely aligned with the goals of the Commission for the proposed project.



## *Professional Qualifications*

Pentree, Incorporated will assign a team of talented and experienced engineers and firm principals to this 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 is the **Principal-In-Charge** and will serve as **Project Manager**. He is actively involved in the daily management of the firm. Mr. Tuggle's expertise and knowledge of project management and civil engineering will assure you of a quality project that meets your specifications.

**Bob Hazelwood, P.E., P.S.** will serve as **Chief Engineer** for the project. Mr. Hazelwood will be responsible for overseeing all technical aspects of the project. Mr. Hazelwood has over 25 years of experience in the evaluation and design of AML funded projects.

Mr. Hazelwood will be assisted by **Zane Summerfield**, who will provide analysis and mining expertise for the design. **Gregg Inman, EIT** will provide technical and design assistance for the project.

Construction monitoring will be provided by **Dennis Pitzer**. Mr. Pitzer has extensive experience in drainage construction and re-vegetation for Pentree, Incorporated.



## 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:

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

### Education:

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

### Active Registrations:

Professional Engineer, 1988 #011845, State of West Virginia

Professional Engineer, 2011 #049260, State of Virginia

Professional Surveyor, 1995 #1176, State of West Virginia

### Project Experience:

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

**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

Upper Glade Phase I&II - Principal-In-Charge (partial AML funding)

**Gauley River Public Service District** Mt. Olive, Jodie & Smith Branch Emergency - Project Manager  
Twentymile and Route 39 / Peters Creek Water Line Extension Project – Project Manager, Contract and Construction Administration; Summersville Phases I, II & III - Principal-In-Charge (Partial AML funding)

**Green Valley-Glenwood County Public Service District** Various Wastewater Projects – Project Oversight, Contract and Construction Administration

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

### King Coal Highway/Coalfield Expressway

Project Oversight, Principal-In-Charge

**McDowell County Prison** Site Development - Principal-In-Charge

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

**City of Oak Hill Drainage Phases I, II, and III** - Project Manager and Principal-In-Charge

**City of Oak Hill Sanitary Board** Wolf Creek Park Sanitary Sewer Service, Fayette Plateau Package Plant and Potential Sanitary Sewer Plant Upgrade; Principal-In-Charge, Contracts 3-9 Wastewater Collection Upgrades - Project Manager, Contract and Construction Administration

**Webster County Industrial Park** – Project Manager, Contract and Construction Administration



## Robert D. Hazelwood, P.E., P.S. Vice President, Chief Engineer

Mr. Hazelwood joined Pentree, Incorporated in 1979 and serves as Executive Vice President for the firm. In this capacity, his primary responsibility is to provide Project Management for projects. Mr. Hazelwood's experience includes preliminary and final design, preparation of contract documents and specifications and project management. Additionally, Mr. Hazelwood has extensive knowledge working with the WVDEP AML for funding assistance with several large projects in the southern part of the State.

### **Education:**

M.S. Sanitary Engineering, 1976, Virginia Polytechnic Institute

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

### **Active Registrations:**

Professional Engineer, 1980 #008452, State of West Virginia

Professional Surveyor, #1179 State of West Virginia

### **Project Experience:**

**Eastern Wyoming PSD;** Mullens Wyco Water Project - Water Treatment Plant, Water Storage Tanks, An Upgrade Of The Lower Gulf Water System And An Upgrade Of The Upper Gulf Water System, Itman Bud Mountain Water Project (AML Funded Water Projects)

**Ravencloff-Mcgraws-Saulsville Public Service District** Water Projects – Design Engineer And Quality Control multiple AML Funded Water Projects

**Deer Run Subdivision;** 13 Lots On 14 Acres – Design Engineer And Quality Control

**Pleasant Valley Estates;** 23 Lots On 17 Acres - Design Engineer And Quality Control

**Twin Oaks Subdivision;** 18 Lots On 12 Acres - Design Engineer And Quality Control

**Greenbrier County Public Service District #2** Sanitary Sewer Collection System And Wastewater Treatment Plant – Design Engineer And Quality Control

**Red Sulphur Springs Public Service District** Various Sanitary Sewer And Water Projects – Design Engineer And Quality Control

**Green Valley-Glenwood Public Service District** Sanitary Sewer Projects Including A 1.5 MGD Wastewater Treatment Plant, Sewer Line Extensions And Upgrades – Design Engineer And Quality Control

**Edray Technical Park,** Pocahontas County, West Virginia – Design Engineer And Quality Control

**Fountain Springs Industrial Park,** Monroe County, West Virginia – Design Engineer And Quality Control

**Peterstown Satellite Medical Clinic Addition,** Monroe County, West Virginia – Design Engineer And Quality Control



## Gregg Inman, EIT Design Engineer

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

- › Project Management
- › Utility Design
- › Site Design
- › Permitting
- › Specifications
- › Technical Writing
- › Drafting

### **Education:**

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

### **Active Registration:**

Registered EIT – State of West Virginia

### **Project Experience:**

**City of Oak Hill** – Sanitary Sewer Relocation - Design, Drainage Phase III - Project Manager

**Cowen PSD** - Upper Glade Phase I - Project Manager

**Fort Chiswell** Wastewater Treatment Plant – CADD Design

**Eastern Wyoming PSD** Mullens-Wyco Water Treatment Plant – Drafting, Design

**Town of Davy** Big Sandy-Asco Water Line Extension – Design

**Gauley River Public Service District** Smith Branch Water Line Relocation Project – Design

**Town of Fayetteville** - Nickelville Road Sidewalks Phase II - Project Manager

**Town of North Fork** – Water Line Extension Project – Design

**Page-Kincaid PSD** Sanitary Sewer Extension – Package Plant design

**Glen White / Trap Hill PSD** – Phase I and II Water Line Extension Project - Design, Project Manager

**American Electric Power** – McGraw Substation – Site Development and Grading – Design

**Berkeley County Public Service Sewer District** – Opequon and Baker Heights Pump Stations - Design



## 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 permit specialist for a mining engineering firm, 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:

**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

**City of Mount Hope**– Review and analysis of water treatment plant and engineering report.

**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

**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

**Jefferson County PSD**– Alternative Treatment Facility Plan – Review of current alternative waste water treatment methods including Membrane Bio-Reactors, Sequential Batch Reactors, Vertical Loop Reactors, Free Water Surface and Subsurface Flow Wetlands, Facultative (aerobic-anaerobic) and Aerated lagoons, Re-circulating Sand Filters, Mound Systems, Reed Beds and other onsite treatment systems

### Experience with other firms:

- ◆ **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, economic modeling
- ◆ **Oil and Gas Well Permitting** – Plat preparation, reclamation plans, review with Oil and Gas inspectors and permit documents for wells in West Virginia
- ◆ **Oil and Gas Well Drilling Pit Treatment** – Develop and run a Oil and Gas well pit treatment program for treatment and discharging drilling waste pits in remote locations



## Dennis Pitzer

### Resident Project Representative

Prior to coming to Pentree, Mr. Pitzer was employed in the construction industry. Since joining the firm in 2000 he has performed project representation for both side design and utility design. He also has provided assistance in the survey department.

#### **Education:**

Mercer County Vocational Technical Center Civil Technology

On-the-Job Training as Inspector

#### **Representative Project Experience:**

American Electric Power (Multiple Projects) Survey Crew - Rodman

Berkeley County P.S.S.D. Inwood Wastewater Collection and Plant

Cowen P.S.D. Wastewater Treatment Plant Upgrade

Eastern Wyoming P.S.D. Mullens Water System Extension Project

Glen White Trap Hill P.S.D. Phase I Waterline Extensions

Green Valley Glenwood P.S.D. Wastewater Collection System Project

Greenbrier County P.S.D. #2 Sewer Project

Greenbrier Valley Economic Development Corporation Edray Industrial Park

Jefferson County P.S.D. Subdivision Utilities and Street Inspection

City of Mount Hope Kilsyth Collection and Wastewater Plant Upgrade

Oak Hill Sanitary Board - Drainage Phase II, Phase III

Raleigh County Memorial Airport - Utility Installation

Red Sulphur Public P.S.D. Bozoo Water Extensions, Linside Sewer Collection and Plant Upgrade, Rock Camp Water Extensions, Greenville Water Extension



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

PROJECT NAME: **Witcher Creek Portals / Refuse RFQ# DEP15601**      DATE (DAY, MONTH, YEAR) **March 13, 2012**      FEIN **55-0483692**

1. FIRM NAME **Pentree, Incorporated**      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**      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      8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS  
**John W. Tuggle, P.E., P.S. Principal in Charge**  
**Robert D. Hazelwood, P.E., P.S. Vice President**

9. PERSONNEL BY DISCIPLINE

- |                                  |   |                      |          |                          |                                   |
|----------------------------------|---|----------------------|----------|--------------------------|-----------------------------------|
| <u>3</u> ADMINISTRATIVE          | — | ECOLOGISTS           | —        | LANDSCAPE ARCHITECTS     | STRUCTURAL ENGINEERS              |
| — ARCHITECTS                     | — | ECONOMISTS           | —        | MECHANICAL ENGINEERS     | <u>9</u> SURVEYORS                |
| — BIOLOGIST                      | - | ELECTRICAL ENGINEERS | —        | <b>MINING ENGINEERS</b>  | — TRAFFIC ENGINEERS               |
| <u>6</u> CADD OPERATORS          | - | ENVIRONMENTALISTS    | <u>3</u> | PHOTOGRAMMETRISTS        | <u>1</u> OTHER - Information Tech |
| — CHEMICAL ENGINEERS             | — | ESTIMATORS           | —        | PLANNERS: URBAN/REGIONAL |                                   |
| <u>3</u> CIVIL ENGINEERS         | — | GEOLOGISTS           | —        | SANITARY ENGINEERS       |                                   |
| <u>5</u> CONSTRUCTION INSPECTORS | — | HISTORIANS           | —        | SOILS ENGINEERS          |                                   |
| <u>2</u> DESIGNERS               | — | HYDROLOGISTS         | <u>1</u> | SPECIFICATION WRITERS    | <b>33 TOTAL PERSONNEL</b>         |
| — 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      **NOT APPLICABLE**

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

NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ____ Yes ____ No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ____ Yes ____ No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ____ Yes ____ No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ____ Yes ____ No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ____ Yes ____ No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ____ Yes ____ No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ____ Yes ____ No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ____ Yes ____ No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ____ Yes ____ No

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 Ravenc Cliff-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 Jodie Waterline Extension Project in 1998.

B. Is your firm experienced in Soil Analysis? No

Description and Number of Projects:

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.

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.

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 62 water line extension and replacement projects in the past 47 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	
<b>Tuggle, John W. P.E., P.S. President</b>		YEARS OF AML RELATED DESIGN EXPERIENCE: <b>26</b>	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: <b>26</b>
<p>Brief Explanation of Responsibilities</p> <p>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.</p>			
<p>EDUCATION (Degree, Year, Specialization)</p> <p>B.S., Bluefield State College, 1985 – Civil Engineering Technology</p>			
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</p> <p>West Virginia Rural Water Association</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 EXPERIENCE	
<b>Hazelwood, Robert D. P.E., P.S. Vice President</b>		YEARS OF AML DESIGN EXPERIENCE: <b>10</b>	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: <b>32</b>
<p>Brief Explanation of Responsibilities</p> <p>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 Project Manager/Project Engineer for the Mullens/Wyco Water System Upgrade, the Keyrock Water Project, Itmann/Bud Mountain Water Project, Glen Fork-Sabine Water Project, Big Sandy Water Project and the Coal Mountain Water Project - all of which have funding with the WVDEP AML. As such, Mr. Hazelwood is well versed in AML reporting and deadline requirements.</p>			
<p>EDUCATION (Degree, Year, Specialization)</p> <p>M.S., Sanitary Engineering, 1976 – Virginia Polytechnic Institute</p> <p>B.S., Civil Engineering, 1975 – West Virginia Technical Institute</p>			
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</p> <p>West Virginia Rural Water Association</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 EXPERIENCE	
<b>Shields, Robert G. (Gary) P.E., P.S. Survey Director</b>		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) P.E., 1990, West Virginia #10786 P.S., 1982, West Virginia #766 P.S., 1986, 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	
<b>Inman, Gregg E., E.I.T. Design Engineer</b>		YEARS OF AML DESIGN EXPERIENCE: 5	YEARS OF AML RELATED DESIGN EXPERIENCE: 5
YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 5			
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 Registered E.I.T. - State of West Virginia			
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.) <b>Summerfield, J. Zane, Senior Civil Analyst</b>	YEARS OF AML DESIGN EXPERIENCE: 15	YEARS OF AML RELATED DESIGN EXPERIENCE: 15	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 13
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)	
Tri-Brach (3)	
Survey Compass (2)	
	Kenwood TK-2200 Protalk

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
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	95%
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 95% constructed Phase II is in bidding process 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



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
Summit Water Line Extension Fayette County, WV	City of Mount Hope PO Box 151 Mount Hope, WV	Preliminary Engineering Report, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$1,100,000	100% Awaiting permission to bid
Coal Mountain Water Extension* Wyoming County, WV	Ravenc Cliff-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	\$10,000,000	15% Design
Jesse Matheny Water Ph II Project * Wyoming County	Ravenc Cliff-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	Construction Scheduled to begin Spring 2012
Route 97 Water Extension Wyoming County, WV	Ravenc Cliff-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		
*Represents partially AML funded projects				



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 Waterline Extensions Nicholas County, WV	Gauley River PSD PO Box 47 Swiss, WV	\$5,002,267	2007	YES
Gap Mills Water Project Monroe County	Gap Mills PSD PO Box 117 Gap Mills, WV 24941	\$1,898,000	2008	YES
Oak Hill Drainage Phase II Fayette County	City Of Oak Hill PO Box 1245 Oak Hill, WV 25901	\$736,870	2008	YES
City Of Oak Hill Sidewalk Repairs Fayette County	City Of Oak Hill PO Box 1245 Oak Hill, WV 25901	\$269,482	2008	YES
Lindside Sewer Project Monroe County, WV	Red Sulphur PSD P.O. Box 697 Peterstown, WV 24963	\$6,169,160	2008	YES
Ecolab Wastewater Treatment Plant Upgrade Berkeley County	Ecolab 942 Baker Road Martinsburg, WV 25405	\$1,778,000	2009	YES
Baker Heights Wastewater Treatment Plant Upgrade Berkeley County	Berkeley County PSSD PO Box 944 Martinsburg, WV 25401	\$8,730,919	2009	YES
Inwood Wastewater Treatment Plant Upgrade Berkeley County	Berkeley County PSSD PO Box 944 Martinsburg, WV 25401	\$7,600,000	2009	YES
Asco Water Project McDowell County	Town Of Davy PO Box 246 Davy, WV 24828	\$1,500,000	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
Rahall Technology and Business Park Renovations (VA Clinic) Greenbrier County, WV	Greenbrier Valley Economic Development Corporation PO Box 33 Maxwelton, WV 24987	\$1,363,000	2010	YES
Page Kincaid Sewer Project Fayette County	Page-Kincaid PSD Po Box 165, Hwy 61 Kincaid, WV 25119	\$10,800,000	2010	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) - **NON APPLICABLE**


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.

**PLEASE SEE ATTACHED STATEMENT OF QUALIFICATIONS AND SCOPE OF SERVICES**

20. The foregoing is a statement of facts.



Signature: \_\_\_\_\_  
Title: **PRESIDENT**

Printed Name: John W. Tuggle, P.E., P.S.

Date: March 13, 2012

**AML and RELATED PROJECT EXPERIENCE MATRIX**

PROJECT	Exp. Basis C=Corp P=Personal	Additional Info Provided on Page:	PROJECT EXPERIENCE REQUIREMENTS														PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional																								
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	John W. Tugle, President P.E., P.S.	Robert D. Hazelwood, P.E., P.S.	Zane Summerfield, Analyst	Gregg Inman																				
Eastern Wyoming County P.S.D. Water Project	C					X						X	X				M/P	P	P																						
King Coal Highway	C															X						X																			
City of Oak Hill Drainage	C															X										X															
Inwood Drainage Project	C																																								

\* 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.

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

West Virginia Code §5A-3-10a states: 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.

**DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

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

**WITNESS THE FOLLOWING SIGNATURE**

Vendor's Name: Pentree, Incorporated

Authorized Signature: *[Signature]* Date: March 13, 2012

State of West Virginia

County of Mercer to-wit:

Taken, subscribed, and sworn to before me this 13<sup>th</sup> day of March, 2012

My Commission expires January 26, 2020

AFFIX SEAL HERE

NOTARY PUBLIC *Melissa Meadows*

