

Department of Environmental Protection
Office of Abandoned Mine Lands & Reclamation
Macarthur Subsidence Project, Raleigh County
DEP 15600



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PROCUREMENT DIVISION
STATE OF WV

November 16, 2011

 **Pentree**
Incorporated

Consulting Engineers

P.O. Box 1309

1428 Main Street

Princeton, West Virginia 24740

304-431-7800

304-425-0445 (f)

www.pentree.com

November 15, 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 - Macarthur Subsidence Project
DEP 15600**

Dear Mr. Bowman,

Pentree, Incorporated is pleased to have the opportunity to submit this Expression of Interest for the Macarthur Subsidence Project in Raleigh County. Our firm is a full service civil engineering firm with extensive experienced in the design of construction projects all over the southern part of West Virginia.

Enclosed in this response is the appropriate documentation to provide the selection committee with an opportunity to examine our credentials as well as a brief look at our 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

Macarthur Subsidence Project DEP 15600

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1428 Main Street
Princeton, West Virginia 24740
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Statement of Qualifications



Pentree, Incorporated began providing utility-based engineering services in 1965 when the Pentree Division of Bennet-Nave-Thomas incorporated as separate entity. 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 site development, water, wastewater, mapping, surveying and transportation services. Additionally, Pentree offers the only in-house mapping and photogrammetry service in the State of West Virginia.



Pentree, Incorporated can offer our clients services above and beyond those of most engineering firms. In addition to civil engineering, survey and construction management, we now offer hydraulic pipe modeling and GIS mapping services, all of which are beneficial to our client's infrastructure growth and improvements.

Our team is actively involved in all aspects of the engineering process from consulting and planning through funding and preparation of documentation needed throughout the construction process to meet the technical requirements and budgetary limits of our clients and their funding agencies.



Over the past forty five years our firm has provided engineering services for many industrial parks and site development projects throughout West Virginia. We have helped provide funding assistance, permitting, design and construction monitoring for these types of community enhancing projects for municipalities and private clientele alike.

Services



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
 - Sidewalks
 - Parking Lots
 - Bridges
 - Airports

- **Photogrammetry**
 - Digital Aerial Photography & Mapping
 - 3D Terrain Modeling
 - 2-D & 3-D Digital Documentation

- **Field Services**
 - Survey
 - Construction Management
 - Owner's Representative Services
 - GIS



***“Performance driven service
- Cost effective results”***

Technical Expertise



Pentree's roots are firmly planted in the engineering of publicly funded civil and private enterprise projects throughout the state of West Virginia and in western Virginia. For decades, we have provided our technical expertise in all aspects of engineering and field services. The proven methods of approach that we apply assure our clients of a successful project that meets their needs for the present and the future.

DESIGN

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

SURVEY

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

CONSTRUCTION MANAGEMENT AND INSPECTION

Over the past century, Pentree, Incorporated 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.



Management and Staffing



Pentree, Incorporated has dedicated personnel committed to providing superior service throughout all aspects of the architectural engineering process. From consulting, planning and design through permitting and funding to preparation of documentation needed throughout the construction process, Pentree will meet and exceed the requirements of regulatory and funding agencies. Pentree, Incorporated offers a highly qualified and experienced staff to the City of Oak Hill for the Virginia Street Sidewalk Project Phase II.

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, all of whom are also licensed professional surveyors. Additionally, our staff of 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 desire and deserve.



Project Team



Pentree, Incorporated will assign a team of talented and experienced engineers and technicians to Macarthur Subsidence 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, Inc. will serve as **Principal-In-Charge**. He is actively involved in the daily management of the firm. Mr. Tuggle's experience working with our clients during the funding process of infrastructure projects, including determining eligibility and feasibility, will be a strong asset to your project. Additionally, Mr. Tuggle has extensive experience in working with regulatory agencies in the permitting process.



Gregg Inman will provide his experience as Design Engineer, **Zane Summerfield** as Senior Civil Analyst and **Gary Shields, L.L.S., P.E.**, head of Pentree's Survey Department, will provide survey support.



Resumes for the team members follow.

Resume for John Tuggle, P.E., P.S. Principal-in-Charge/Project Manager



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 provided recommendations and assistance to numerous clients in securing the best source of funding to suit their needs. Mr. Tuggle has been involved with various types of projects including:

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



Education:

B.S. Civil Engineering
Technology 1982
Bluefield State College

Active Registrations:

Professional Engineer, 1988
#011845
State of West Virginia
Professional Surveyor, 1995
#1176
State of West Virginia

Project Experience:

Webster County Industrial Park
Utility Extension - Project Manager, Contract and Construction Administration

Greenbrier Valley Economic Development Corporation -
Rahall Technology Center
Phase II - Principal-In-Charge

Greenbrier Valley Economic Development Corporation
Fountain Springs Phase I -
Quality Control Engineer

Oak Hill Police Department -
Principal-In-Charge

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

District 10 Headquarters - Site Development - Quality Control Engineer

Tourist Information Center -
Site Development -
Design Engineer

Gary Shields, LLS, PE Survey Department Manager



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 Mr. Shields' 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. He has also provided construction inspection for subdivision developments.

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

Education:

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

Registration:

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:

City of Oak Hill Phases II and III Sidewalk Project - Survey manager for the Site Survey and Construction Layout

City of Oak Hill Sanitary Board - Lead Surveyor for Elevation and Location Survey of Existing Sewer Lines

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, EIT Design Engineer



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
- Site Design
- Permitting
- Specifications
- Technical Writing

Education:

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

Active Registrations/ Affiliations:

Registered EIT - State of West Virginia

Project Experience:

City of Oak Hill Lochgelly Road
Sanitary Sewer Relocation -
Design

Fort Chiswell Wastewater
Treatment Plant - CADD De-
sign

Ecolab - Sludge building Design
Eastern Wyoming PSD Mullens-
Wyco Water Treatment Plant
- Drafting, Design for New
"Smaller" Plant System

Greenbrier County PSD #2 Rus-
sellville Road - Funding ap-
plications and Cost Estimates

AEP Projects - Various - Permits,
Grading, Construction Plans

Town of Davy Asco Water Line
Extension - Design

McDowell County PSD Big Sandy
Water Project - Design

Gauley River Public Service Dis-
trict Smith Branch Emergen-
cy Water Project - Design

Town of North Fork Water Line
Extension Project - Design

Page-Kincaid PSD Sanitary Sew-
er Extension - Package Plant
Design

Glen White / Trap Hill PSD Wa-
ter Line Extension Project -
Design

Pump Station Design - Eastern
Panhandle (Jefferson/
Berkeley Counties)

- Tilhance Development
- JC Butler Development
- Barnhart Development
- Crest Creek Subdivision
- BC McLaughlin Development

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



Resume for 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.



Education:

B.S. Mining Engineering
1982 West Virginia Institute of
Technology A.S. Mining Engi-
neering 1976 West Virginia Insti-
tute of Technology
AUTOCAD, 1992 Carver Career
Center

Project Experience:

Jefferson County PSD - Project
Manager/ Lead Designer for a
1.0 MGD Biological Nitrogen Re-
moval Membrane BioReactor
WWTP. Preparation of construc-
tion drawings and contract doc-
uments, permit applications,
hydraulic calculations, engineer-
ing reports, economic modeling,
funding applications

Ecolab Pretreatment WWTP Up-
grade - Analysis of WWTP per-
formance, 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

Berkeley County Public Sewer
Service District Baker Heights &
Inwood WWTP Upgrades - Analy-
sis of the 0.90 MGD and 0.75
MGD WWTP's, projection of
growth, documentation of exist-
ing performance, analysis of im-
pact 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 Virgini-
a. His work experience includ-
ed 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 model-
ing



Prior Related Experience Site Development



Professional Engineering Services Include:

Boundary Development	Permitting
Roadway Design	Mapping
Utility Layout	Bid Services
Sidewalk/Street Design	Construction Administration
Drainage	Construction Monitoring
Cut and Fill	



Pentree, Incorporated has provided professional engineering services for the following entities:

King Coal/Coalfields Expressway
McDowell County, WV

US Gypsum
Saltville Road Relocation and
Subsidence Abatement
Washington County, VA

City of Oak Hill
Fayette County, WV

Red Sulphur PSD
Monroe County, WV

Town of Union
Monroe County, WV

Page Kincaid PSD
Fayette County, WV

Greenbrier Valley Economic
Development Corporation
Greenbrier & Monroe Counties, WV

E.T. Boggess
Mercer County, WV

Berkeley County
Public Service Sewer District
Berkeley County, WV

Jefferson County
Public Service District
Jefferson County, WV



References



**Greenbrier Valley Economic
Development Corporation**
Steven Weir, ED
804 Industrial Park Road
P.O. Box 33
Maxwelton, WV 24957
304-497-4330

City of Oak Hill
Bill Hannabass, City Manager
P.O. Box 1245
Oak Hill, WV 25901
304-469-9541

**Ravencliff-McGraws-Saulsville
Public Service District**
Bryce Phillips, Chairman
P.O. Box 217
McGraws, WV 25875
304-294-4511

**Gauley River
Public Service District**
Russell Deering, Chairman
P.O. Box 47
Swiss, WV 26690
304-632-2508

City of Mount Hope
Michael Martin, Mayor
P.O. Box 151
Mount Hope, WV 25880
304-877-3100

**Glen White-Trap Hill
Public Service District**
Ron Dillon, Manager
P.O. Box 100
Fairdale, WV 25839
304-934-6234

Town of Fayetteville
Bill Lanham, Manager
P.O. Box 298
Fayetteville, WV 25840
304-574-0101

**Region IV Planning and
Development Council**
W.D. Smith, ED
885 Broad Street, Suite 100
Summersville, WV 26651
304-872-4970(ext.307)



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

PROJECT NAME: RFQ# DEP15600
Macarthur Subsidence Project
Raleigh 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 Corporation x
Partnership Joint-Venture YES NO X

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
—	BIOLOGIST	—	ELECTRICAL ENGINEERS	—	MINING ENGINEERS	—	TRAFFIC ENGINEERS
7	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: 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 JOINTI-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: HC Nutting/Terracon	SPECIALTY: Geotechnical Engineering	WORKED WITH BEFORE X 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?

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
<p>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.</p>			
<p>EDUCATION (Degree, Year, Specialization) B.S., Bluefield State College, 1985 - Civil Engineering Technology</p>			
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS West Virginia Rural Water Association</p>			
<p>13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)</p>			
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
<p>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, Itmann/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.</p>			
<p>EDUCATION (Degree, Year, Specialization) M.S., Sanitary Engineering, 1976 - Virginia Polytechnic Institute B.S., Civil Engineering, 1975 - West Virginia Technical Institute</p>			
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS WEST VIRGINIA RURAL WATER ASSOCIATION</p>			
<p>REGISTRATION (Type, Year, State) P.E. 1980 - WEST VIRGINIA #008452 P.S. 1995 - WEST VIRGINIA #1179</p>			

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
<p>Shields, Robert G. (Gary) P.E., P.S. Survey Department Manager</p>	<p>0</p>	<p>0</p>	<p>8</p>
<p>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.</p>			
<p>EDUCATION (Degree, Year, Specialization) B.S., 1982, Civil Engineering Technology, Bluefield State College</p>			
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS West Virginia Society of Professional Surveyors American Society of Civil Engineers</p>			
<p>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</p>			
<p>13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)</p>			
<p>Inman, Gregg E., E.I.T.</p>	<p>4</p>	<p>4</p>	<p>6</p>
<p>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.</p>			
<p>EDUCATION (Degree, Year, Specialization)</p>			
<p>B.S., 2005, Civil Engineering Technology, Bluefield State College</p>			
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Registered E.I.T. - State of West Virginia</p>			
<p>REGISTRATION (Type, Year, State) Registered E.I.T. - State of West Virginia</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.) Summerfield, J. Zane, Senior Civil Analyst	YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE: 15	YEARS OF AML RELATED DESIGN EXPERIENCE: 15

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 EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

Brief Explanation of Responsibilities:

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

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 w/ three receivers
- GPS 1' K&E
- Transit Wild T-2
- Theodolite R8 Trimble Dual Frequency
- GPS Base
- GPS Rover
- GPS Trimble Nomad
- GIS Data Collector
- 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
Keyrock Water Project Wyoming County	Ravenclyff-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				

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 Wastewater 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

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 APPLICAPABLE

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: November 14, 2011

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.

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

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

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

Vendor's Name: Pentree, Incorporated

Authorized Signature: _____

Date: November 15, 2011