RFQ DEP15611 EXPRESSION OF INTEREST TO PROVIDE PROFESSIONAL ENGINEERING SERVICES FOR PLEASANT VALLEY (BROWN) HIGHWALL & PORTALS DESIGN

SUBMITTED TO: WVDEP – OFFICE OF AML & R

SUBMITTED BY: CIVIL TECH ENGINEERING INC. 300A PRESTIGE DRIVE HURRICANE, WV 25526

> Phone: 304-757-8094 Fax: 304-757-8095

civiltech1@frontier.com

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W PURCHASING DIVISION

DATE SUBMITTED: MARCH 1, 2012

PHOTO: SUNRISE SANITATION MINE DRAIN

CIVIL TECH ENGINEERING, INC.

300A Prestige Drive Hurricane, West Virginia 25526 Phone: 304-757-8094 Fax: 304-757-8095 civiltech1@frontier.com

March 1, 2012

Department of Administration
Purchasing Division
2019 Washington Street East
P.O. Box 50130
Charleston, West Virginia 25305-0130

Subject:

Expression of Interest for RFQ - DEP15611

Pleasant Valley (Brown) Highwall & Portals Design

Marion County, West Virginia Civil Tech Proposal No. P12505

To Whom it May Concern:

CIVIL TECH ENGINEERING INC. is pleased to present this EOI for the subject RFQ. This EOI has been prepared to illustrate our recent and pertinent experience with AML and civil design projects. Important and pertinent experience is summarized below:

	35 years of combined experience with AML projects. 12 recent AML projects.
Ч	Constructed AML projects: Thomas Sunrise Sanitation Mine Drainage and Blowout
	Projects, Prospect Valley Highwall No. 4, Zebb's Creek HW#2, and Winifrede (McFann)
	Portals Project.
	AML design projects complete and either ready or under construction: Birds Creek
	Portals, Douglas WL Extension, Cambria Portals, Nellis Smith Drainage, and
	Hawkinberry Hollow Portals and Subsidence.
	Awaiting contract for Stowe Refuse Piles.
	Conceptual engineering complete and preliminary engineering started for the Pines
	Country Club (Ponds) Subsidence Project. (Project Cancelled due to cost).

We believe our past and recent experience makes our company uniquely qualified for AML design projects. We look forward to meeting with the selection committee to discuss the project and our qualifications.

Very truly yours,

CIVIL TECH ENGINEERING INC.

Mark E. Pennington MS, PE Principal Engineer

CIVIL TECH ENGINEERING, INC.

300A Prestige Drive Hurricane, West Virginia 25526 Phone: 304-757-8094 Fax: 304-757-8095 civiltech1@frontier.com

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DATE PRINTED

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

TERMS OF SALE

Request for Quotation

SH-P

SHIP VIA

RFO NUMBER DEP15611

FREIGHT TERMS

ADDRESS CORRESPONDENCE TO ATTENTION OF

GUY NISBET 304-558-8802

RFQ COPY

TYPE NAME/ADDRESS HERE Civil Tech Engineering Inc. 300A Prestige Drive Hurricane, WV 25526

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

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GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia.
- 2. The State may accept or reject in part, or in whole, any bid.
- 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
- 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
- 5. Payment may only be made after the delivery and acceptance of goods or services.
- 6. Interest may be paid for late payment in accordance with the West Virginia Code.
- 7. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 10. The laws of the State of West Virginia and the Legislative Rules of the Purchasing Division shall govern the purchasing process.
- 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- 12. 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.
- 13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.html and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
- 14. 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. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.
- 15. 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, and the West Virginia Insurance Commission. 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.
- 16. ANTITRUST: In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

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

INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
- 2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
- 4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
- 5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



NENDOR

RFQ COPY

TYPE NAME/ADDRESS HERE

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

Request for Quotation

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ADDRESS CORRESPONDENCE TO ATTENTION OF

GUY NISBET 304-558-8802

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ENVIRONMENTAL PROTECTION
DEPARTMENT OF
OFFICE OF AML&R
601 57TH STREET SE
CHARLESTON, WV

25304 304-926-0499

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Revised 9/09

EXPRESSION OF INTEREST

Pleasant Valley (Brown) Highwall and Portals Requisition DEP15611

Part 1

GENERAL INFORMATION

1.1 Purpose:

The Acquisition and Contract Administration Section of the Purchasing Division "State" is soliciting Expression(s) of Interest (EOI) for the West Virginia Department of Environmental Protection (WVDEP), Office of Abandoned Mine Lands & Reclamation (AML), from qualified firms to provide architectural/engineering services as defined in section two (2) and three (3) and construction monitoring services during the construction phase of the project as defined by the **Scope of Work**. Construction Inspection by the firm will be at the option of WVDEP/AML.

1.2 Project:

The mission or purpose of the project described in sections 2 & 3 is to provide design services for the following:

Pleasant Valley (Brown) Highwall and Portals:

Construct and install sediment and erosion control measures.

Clearing and grubbing of site.

Upgrade 4,900 feet of access road.

Excavate and drain 5 portals and install 3 wet seals and 2 bat gate mine seal.

Construct drainage channels and underdrains to carry water safely off-site.

Eliminate the highwalls by backfilling with available spoil, refuse and borrowed soil to establish approximate original contour.

Remove and properly dispose of all trash and waste found on site.

Condition and revegetate all disturbed areas.

1.3 Format:

All responses should be submitted in a loose-leaf, three ring binder. The response should be presented in concise format which defines the corporation history and the experience, qualifications, and performance data of the firm's staff as requested by the AML Consultant Qualification Questionnaire (CQQ), Attachment "B" and the AML and Related Project Experience Matrix (RPEM). Attachment "C".

Electronic copies of the above referenced documents Attachment "B" and Attachment "C" are available online for registered vendors at: http://www.state.wv.us/admin/purchase/newbul.htm.

1.4 Inquiries:

Additional information inquiries regarding this EOI must be submitted in writing to the State Buyer with the exception of questions regarding proposal submission, which may be oral. The deadline for written inquiries is identified in the Schedule of Events, Section 1.16. All inquiries of specification clarification must be addressed to:

Guy L. Nisbet, Senior Buyer Purchasing Division P.O. Box 50130 Charleston, WV 25305-0130 Fax: (304) 558-8802

Email: Guy.L.Nisbet@wv.gov

The firm, or anyone on the firm's behalf, is not permitted to make any contact whatsoever with any member of the evaluation committee. Violation may result in rejection of the EOI. The State Buyer named above is the sole contact for any and all inquiries after this EOI has been released.

1.5 Vendor Registration:

Firms participating in this process should complete and file a *Vendor Registration and Disclosure Statement* (Form WV-1) and remit the registration fee. Firm is not required to be a registered vendor in order to submit an EOI, but the successful firm must register and pay the fee prior to the issuance of an actual contract.

1.6 Oral Statements and Commitments:

Firm must clearly understand that any verbal representations made or assumed to be made during any oral discussions held between firm's representatives and any State personnel are **not** binding. Only the information issued in writing and added to the Expression of Interest specifications file by an official written addendum is binding.

1.7 Economy of Preparation:

EOI's should be prepared simply and economically, providing a straightforward, concise description of firm's abilities to satisfy the requirements of the EOI.

Emphasis should be placed on completeness and clarity of content. Example projects referred to in a firm's EOI's submittal should address projects that are similar in scope to that of the EOI. Firms must complete the CQQ and RPEM as included in Section 4.2 of this EOI. (Proposals must be no more than 100 pages).

1.8 Labeling of the Sections: The response sections should be labeled for ease of evaluation.

1.9 Submission:

- 1.9.1 State law requires that the original expression shall be submitted to the Purchasing Division. All copies to the Purchasing Division must be submitted **prior** to the date and time stipulated as the opening date. All expressions will be date and time stamped on the Purchasing Division official time clock to verify time and date of receipt.
- 1.9.2 Firms mailing expressions should allow sufficient time for mail delivery to ensure timely arrival. The Purchasing Division **CANNOT** waive or excuse late receipt of an expression which is delayed and late for any reason according West Virginia State Code §5A-3-11. Any EOI received after the bid opening time and date will be immediately disqualified in accordance with State law and the Legislative Rule 148-CSR-1.

Submit:

One original plus one convenience copy and one copy on CD to:

Purchasing Division 2019 Washington Street, East P.O. Box 50130 Charleston, WV 25305-0130 The outside of the envelope or package(s) should be clearly marked:

Buyer:

23

Req #:

DEP15611

Opening Date:

03/01/2012

Opening Time:

01:30pm

1.10 Rejection of Expressions:

The State shall select the best value solution according to §5G-1-3 of the West Virginia State Code. However, the State reserves the right to accept or reject any or all expressions and to reserve the right to withdraw this Expression of Interest at any time and for any reason. Submission of, or receipt by the State of Expressions confers no rights upon the firm nor obligates the State in any manner.

1.11 Incurring Costs:

The State and any of its employees or officers shall not be held liable for any expenses incurred by any firm responding to this EOI for expenses to prepare, deliver, or to attend the short-list interviews.

1.12 Addenda:

If it becomes necessary to revise any part of this EOI, an official written addendum will be issued by the State to all potential firms of record.

1.13 Independent Price Determination:

A contract will not be considered for award if the negotiated price was not arrived at independently without collusion, consultation, communication, or agreement as to any matter relating to prices with any competitor.

1.14 Price Quotations: No "price" or "fee" quotation is requested or permitted in the response.

1.15 Public Record:

1.15.1 Submissions are Public Record.

All documents submitted to the State Purchasing Division related to purchase orders/contracts are considered public records. All EOI's submitted by firms shall become public information and are available for inspection during normal official business hours in the Purchasing Division Records and Distribution center after the expressions have been opened.

1.15.2 Written Release of Information.

All public information may be released with or without a Freedom of Information request, however, only a written request will be acted upon with duplication fees paid in advance. Duplication fees shall apply to all requests for copies of any document. Currently the fees are \$0.50/page, or a minimum of \$10.00 per request, whichever is greater.

1.15.3 Risk of Disclosure.

The only exemptions to disclosure of information are listed in West Virginia Code §29B-1-4. Primarily, only trade secrets as submitted by a firm are the only exemption to public disclosure. The submission of any information to the State by a firm puts the risk of disclosure on the firm. The submission of any information to the State by a vendor puts the risk of disclosure on the vendor. The State does not guarantee non-disclosure of any information to the public.

1.16 Schedule of Events:

Release of EOI: 01/27/2012 EOI Opening Date: 03/01/2012

- 1.17 Mandatory Pre-bid Conference: NA
- 1.18 Bond Requirements: N/A

1.19 Purchasing Affidavit:

West Virginia State Code §5A-3-10a (3) (d) requires that all firms submit an Affidavit regarding any debt owed to the State and licensing and confidentiality certifications. The Affidavit must be signed and submitted prior to award. It is preferred that the Affidavit be submitted with the EOI.

PART 2

OPERATING ENVIRONMENT

2.1 Location:

Directions to Pleasant Valley (Brown) Highwall and Portals:

From Philippi, proceed to I-79 North. At exit 135, turn right and drive 0.1 mile towards Benton Ferry. At stop sign, turn left on Pleasant Valley Rd. and drive for 1.5 miles. Turn left then immediately turn right on Dayton St. Drive 0.1 miles to Barnes St. and turn left. Go 0.1 miles and turn right on McKinnley. Go 0.1 miles and turn left on Harlem. Park across from the

brown house at 39°28′29.3″ 80°08′29.8″. The site is approximately 1/10th mile south, through yard, along abandoned DOH right-of-way

2.2 Background:

Firms are to be licensed Architectural/Engineering Firms (A/E) and should be familiar with, and have a successful track record of design of similar projects. The anticipated contract will be for "full-service" A/E design. Aspects of the design are to include, but not be limited to, Civil, Structural, Geological and Hydrological.

The successful A/E will be responsible for **Design** of the following:

The site consists of:

Dangerous Highwall- Three sections of highwall, 3930 linear feet of highwall, averages ~25 feet in height.

 $39\,^{\rm o}$ 28' 27.1" $\,80\,^{\rm o}$ 08' 32.2" and follows contour to $\,39\,^{\rm o}$ 28' 24.3" $\,80\,^{\rm o}$ 08' 33.2"

39° 28′ 22.6″ 80° 08′ 35.2″ and follows contour to 39° 28′ 12.8″ 80° 08′ 33.4″

39° 28' 09.4" 80° 08' 34.7" and follows contour to 39° 27' 54.8" 80° 08' 29.6"

Dangerous Impoundment – Four collapsed portals. 39° 28′ 25.0″ 80° 08′ 33.0″; 39° 28′ 24.0″ 80° 08′ 34.2″; 39° 28′ 12.0″ 80° 08′ 33.9″; 39° 28′ 09.4″ 80° 08′ 34.7″

Portals – Two open portals 39° 28′ 24.9″ 80° 08′ 32.9″; also 39° 27′ 53.1″ 80° 08′ 32.5″

Dangerous Pile – Approximately one acre of residential waste dispersed throughout bench and throughout site

Wet Area – Acid mine drainage (AMD), low to moderate flows, draining to high quality stream. 39° 28′ 28.0″ 80° 08′ 32.3″ and 39° 28′ 12.1″ 80° 08′ 34.1″

Preliminary design documents will be due 60 days from the issuance of the Purchase Order.

PART 3 PROCUREMENT SPECIFICATIONS

3.1 General Requirements:

Firm must submit a completed CQQ (Attachment "B") and RPEM (Attachment "C") as per Section 4.2

3.2 Project Description:

Scope of Work - Pleasant Valley (Brown) Highwall and Portals:

Construct and install sediment and erosion control measures.

Clearing and grubbing of site.

Upgrade 4,900 feet of access road.

Excavate and drain 5 portals and install 3 wet seals and 2 bat gate mine seal.

Construct drainage channels and underdrains to carry water safely off-site.

Eliminate the highwalls by backfilling with available spoil, refuse and borrowed soil to establish approximate original contour.

Remove and properly dispose of all trash and waste found on site.

Condition and revegetate all disturbed areas.

3.3 Special Terms and Conditions:

3.3.1 Bid and Performance Bonds: N/A

3.3.2 Insurance Requirements:

\$1,000,000 General Liability per Occurrence

\$2,000,000 Aggregate

\$1,000,000 Automobile Liability \$1,000,000 Professional Liability

Workers Compensation Certificate Upon Award West Virginia Statutory requirements including West Virginia Code §23-4-2 (Mandolidis) DEP15611 must be listed on Insurance

Certificates

3.4 General Terms and Conditions:

By signing and submitting the EOI, the successful firm agrees to be bound by all the terms contained in Section Three (3) of this EOI.

3.4.1 Conflict of Interest:

Firm affirms that it, its officers or members or employees presently have no interest and shall not acquire any interest, direct or indirect which would conflict or compromise in any manner or degree with the performance or its services hereunder. The firm further covenants that in the performance of the contract, the firm shall periodically inquire of its officers, members and employees concerning such interests. Any such interests discovered shall be promptly presented in detail to the Agency.

3.4.2 Prohibition Against Gratuities:

Firm warrants that it has not employed any company or person other than a bona fide employee working solely for the firm or a company regularly employed as its marketing agent to solicit or secure the contract and that it has not paid or agreed to pay any company or person any fee, commission, percentage, brokerage fee, gifts or any other consideration contingent upon or resulting from the award of the contract. For breach or violation of this warranty, the State shall have the right to annul this contract without liability at its discretion, and/or to pursue any other remedies available under this contract or by law.

3.4.3 Certifications Related to Lobbying:

Firm certifies that no federal appropriated funds have been paid or will be paid, by or on behalf of the company or an employee thereof, to any person for purposes of influencing or attempting to influence an officer or employee of any Federal entity, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any

Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement.

If any funds other than federally appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee or any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the firm shall complete and submit a disclosure form to report the lobbying.

Firm agrees that this language of certification shall be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub recipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this contract was made and entered into.

3.4.4 Vendor Relationship:

The relationship of the firm to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by the parties to this contract. The firm as an independent contractor is solely liable for the acts and omissions of its employees and agents.

Firm shall be responsible for selecting, supervising and compensating all individuals employed pursuant to the terms of this EOI and resulting contract. Neither the firm nor any employees or contractors of the firm shall be deemed to be employees of the State for any purposes whatsoever.

The Firm shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension or other deferred compensation plans, including but not limited to Workers' Compensation and Social Security obligations, and licensing fees, etc. and the filing of all necessary documents, forms and returns pertinent to all of the foregoing.

The Firm shall hold harmless the State, and shall provide the State and Agency with a defense against all claims including but not limited to the foregoing payments, withholdings, contributions, taxes, social security taxes and employer income tax returns.

The firm shall not assign, convey, transfer or delegate any of its responsibilities and obligations under this contract to any person, corporation, partnership, association or entity without expressed written consent of the Agency.

3.4.5 Indemnification:

The firm agrees to indemnify, defend and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person or firm performing

or supplying services, materials or supplies in connection with the performance of the contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the firm, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use or disposition of any data used under the contract in a manner not authorized by the contract, or by Federal or State statutes or regulations; (3) Any failure of the firm, its officers, employees or subcontractors to observe State and Federal laws, including but not limited to labor and wage laws.

3.4.6 Contract Provisions:

After the most qualified firm is identified, and fee negotiations are concluded, a formal contract document will be executed between the State and the firm. The order of precedence is the contract, the EOI and the firm's response to the EOI.

3.4.7 Governing Law:

This contract shall be governed by the laws of the State of West Virginia. The firm further agrees to comply with the Civil Rights Act of 1964 and all other applicable laws (Federal, State or Local Government) regulations.

3.4.8 Compliance with Laws and Regulations:

The firm shall procure all necessary permits and licenses to comply with all applicable laws, Federal, State or municipal, along with all regulations, and ordinances of any regulating body.

The firm shall pay any applicable sales, use, or personal property taxes arising out of this contract and the transactions contemplated thereby. Any other taxes levied upon this contract, the transaction, or the equipment, or services delivered pursuant here to shall be borne by the contractor. It is clearly understood that the State of West Virginia is exempt from any taxes regarding performance of the scope of work of this contract.

3.4.9 Subcontracts/Joint Ventures:

The State will consider the firm to be the sole point of contact with regard to all contractual matters. The firm may, with the prior written consent of the State, enter into written subcontracts for performance of work under this contract; however, the firm is totally responsible for payment of all subcontractors.

3.4.10 Term of Contract:

This contract will be effective (date set upon award) and shall extend until the scope of work is complete or for one (1) consecutive twelve (12) month period. The contact may be renewed upon mutual consent for two (2) consecutive years one (1) year periods or until such reasonable time as may be necessary to obtain a new contract or to complete work.

3.4.11 Non-Appropriation of Funds:

If the Agency is not allotted funds in any succeeding fiscal year for the continued use of the service covered by this contract by the West Virginia Legislature, the Agency may terminate the contract at the end of the affected current fiscal period without further charge or penalty. The Agency shall give the firm written notice of such non-allocation of funds as soon as possible after the Agency receives notice. No penalty shall accrue to the Agency in the event this provision is exercised.

3.4.12 Contract Termination:

The State may terminate any contract resulting from this EOI immediately at any time the firm fails to carry out its responsibilities or to make substantial progress under the terms of this EOI and resulting contract. The State shall provide the firm with advance notice of performance conditions, which are endangering the contract's continuation. If after such notice the firm fails to remedy the conditions contained in the notice, within the time contained in the notice, the State shall issue the firm an order to cease and desist all work immediately.

The State shall be obligated only for services rendered and accepted prior to the date of the notice of termination. The contract may also be terminated upon mutual agreement of the parties with thirty (30) days prior notice.

3.4.13 Changes:

If changes to the original contract become necessary, a formal contract change order will be required. Prior to any work being performed, the change must be negotiated and approved by the State, the Agency and the firm. An approved contract change order is defined as one approved by the Purchasing Division and approved as to form by the West Virginia Attorney General's Office prior to the effective date of such amendment. NO CHANGE SHALL BE IMPLEMENTED BY THE FIRM UNTIL THE FIRM RECEIVES AN APPROVED WRITTEN CHANGE ORDER.

3.4.14 Invoices, Progress Payments, & Retainage:

The Firm shall submit invoices, in arrears, to the Agency at the address on the face of the purchase order labeled "Invoice To" pursuant to the terms of the contract. Progress payments may be made at the option of the Agency based on percentage of work completed if so defined in the final contract. Any provision for progress payments must also include language for a minimum 10% retainage until the final deliverable is accepted.

If progress payments are permitted, firm is required to identify points in the work plan at which compensation would be appropriate. Progress reports must be submitted to Agency with the invoice detailing progress completed or any deliverables identified. Payment will be made only upon approval of acceptable progress or deliverables as documented in the firm's report. Invoices may not be submitted more than once monthly and State law forbids payment of invoices prior to receipt of services.

The firm will invoice for completed work on an approved WVDEP form.

3.4.15 Liquidated Damages:

According to West Virginia State Code §5A-3-4(8), firm agrees that liquidated damages shall be imposed at the rate of N/A per workday, for failure to provide deliverables at the agreed upon date identified in the final contract. This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue to any other additional remedy to which the State or Agency may have legal cause for action including further damages against the firm.

3.4.16 Record Retention (Access & Confidentiality):

Firm shall comply with all applicable Federal and State of West Virginia rules and regulations, and requirements governing the maintenance of documentation to verify any cost of services or commodities rendered under this contract by the firm. The firm shall maintain such records a minimum of five (5) years and make available all records to Agency personnel at firm's location during normal business hours upon written request by Agency within 10 days after receipt of the request.

Firm shall have access to private and confidential data maintained by Agency to the extent required for firm to carry out the duties and responsibilities defined in this contract. Firm agrees to maintain confidentiality and security of the data made available and shall indemnify and hold harmless the State

and Agency against any and all claims brought by any party attributed to actions of breach of confidentiality by the firm, subcontractors, or individuals permitted access by the firm.

PART 4 EVALUATION & AWARD

4.1 Evaluation and Award Process:

a) Expressions of Interest will be evaluated and awarded in accordance with §5G-1-3 "Contracts for architectural and engineering services; selection process where total project costs are estimated to cost two hundred fifty thousand dollars or more."

"In the procurement of architectural and engineering services for projects estimated to cost two hundred and fifty thousand dollars or more the director of purchasing shall encourage such firms engaged in the lawful practice of the profession to submit an expression of interest, which shall include a statement of qualifications, and performance data and may include anticipated concepts and proposed methods of approach to the project. All such jobs shall be announced by public notice published as a Class II legal advertisement in compliance with the provisions of article three [§59-3-1et seq.] committee comprised of three to five representatives of the agency initiating the request shall evaluate the statements of qualifications and performance data and other material submitted by the interested firms and select three firms which in their opinion are the best qualified to perform the desired service. Interviews with each firm selected shall be conducted and the committee shall conduct discussions regarding anticipated concepts and the proposed methods of approach to the assignment. The committee shall then rank in order of preference no less than three professional firms deemed to be the most highly qualified to provide the services required, and shall commence scope of service and price negotiations with the highest qualified professional firm for architectural or engineering services or Should the agency be unable to negotiate a satisfactory contract with the professional firm considered to be the most qualified, at a fee determined to be fair and reasonable, price negotiations with the firm of second choice shall commence. Failing accord with the second most qualified professional firm, the committee shall undertake price negotiations with the third most qualified professional firm. Should the agency be unable to negotiate a satisfactory contract with any of the selected professional firms, it shall select additional professional firms in order of their competence and qualifications and it shall continue negotiations in accordance with this section until an agreement is reached."

- b) The evaluation criteria and assigned point values are as follows:
- A. WV Registered Professional Engineers (Civil or Mining) In the Primary Office:

20 points

B. Reclamation Engineering design experience of the Primary Office's WVRPE as it relates to the specific project problem Areas:

25 points

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 availability of other support personnel a required by the particular project):

20 points

D. The Oral Interview (See Section 4.3 of this EOI):

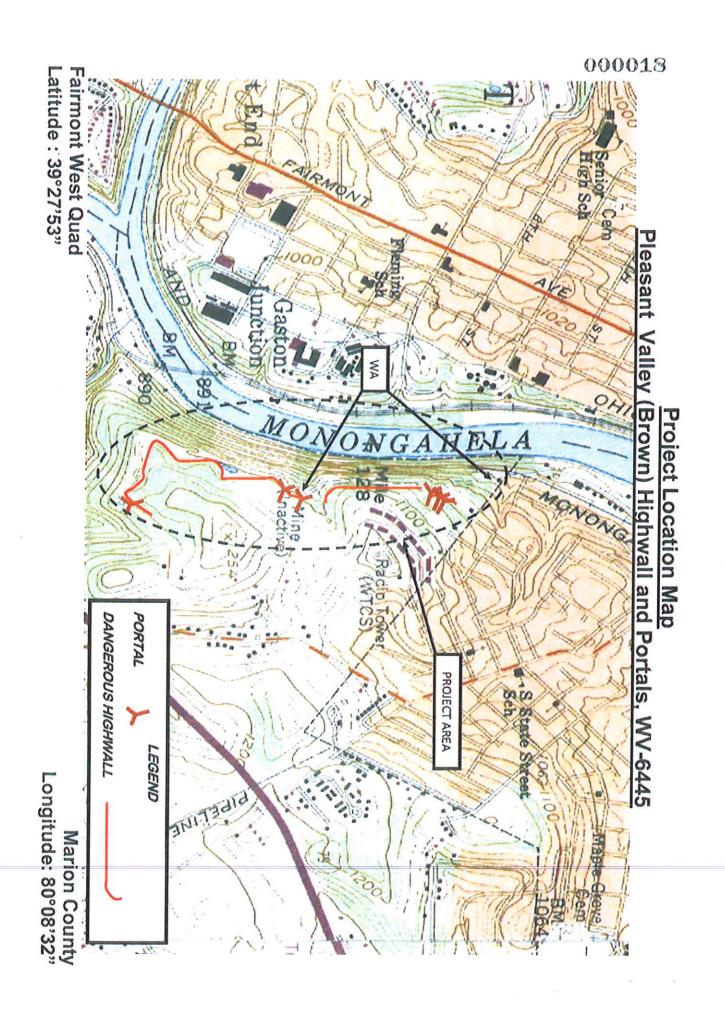
35 points

- 4.2 (a) AML Consultant Qualification Questionnaire (CQQ) must be completed to be eligible (See Attachment "B").
 - (b) AML and Related Project Experience Matrix (RPEM) must also be completed to be eligible (See Attachment "C").
- 4.3 Interviews as stated in 4.1 "Evaluation and Award Process" will be conducted with the three firms selected as the most qualified by the WVDEP Selection Committee. The Committee will schedule the interviews.

The format for the interviews will be a 15-30 minute PowerPoint presentation consisting, at a minimum, of the following:

- · Corporate/personnel experience as it relates to the project or projects
- Proposed project management plan
- Key personnel available for the proposed work
- Proposed subcontractors (mapping, geotechnical, etc.)
- Product quality control
- Project cost control

Fairmont West Quad Latitude : 39°27'53" Pleasant Valley Project Area Brown) Highwall (0) Highway Map T 310 and Portals; WV-6445 22 Longitude: 80°08'32" Marion County 0.38



Name AND ADDRESS: Novel Geo-Environmental PLLC	PLLC	SPECIALTY: Drilling and Laboratory Soils Testing	WORKED WITH BEFORE
806 B Street St. Albans, WV 25177			XYes
			No
NAME AND ADDRESS: Triad Engineering Inc.		SPECIALTY: Drilling and Laboratory Soils Testing	WORKED WITH BEFORE
219 Hartman Run Road Morgantown, WV 26505			XYes
			No
NAME AND ADDRESS: Stantec		SPECIALTY: Mapping	WORKED WITH BEFORE
1 Moore Avenue Buckhannon, WV 26201			_XYes
			No
12. A. Is your	firm experienced in	Abandoned Mine Lands Remediation/Mine Recla	Reclamation Engineering?
YES De	Description and Number	of Projects: See Section A 148 AML Projects - Persc 50+ Subsidence Claims -	onnel Experience (Mark E. Pennington PE) Corporate Experience
ON			
B. Is your	firm experienced in	Soil Analysis?	
VES De	Description and Number	of Projects: See Sections B.2, B.3, and B.4 1200+ Projects - Corporate and	4 d Personnel Experience.
NO			
C. Is your	firm experienced in hydrology	hydrology and hydraulics?	
VES De	Description and Number	of Projects: See Sections B.2, B.3, 50+ Projects involving design.	and B.4 storm water controls and dam spillway
NO			

NAME & TITLE (Last, Middle Int.) Pennington, Mark E. President - Principal Engineer 13
essentials) rst, Middle Int.) YEARS OF EXPERIENCE
a but keep to essentials)
HISTORY
ON
YES Description and Number of Projects:_ Design of Liming station and dams for Cranberry River
F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?
ON
YES Description and Number of Projects: Douglas Water line_(DEP ID#303)
E. Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)
NO XX
YES
D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?

HAWKINBERRY HOLLOW PORTALS - AML

and gained a broad knowledge of most civil engineering disciplines involving abandoned mine lands, storm water and erosion drainage. He recently served as project manager for the Thomas Sunrise Sanitation Mine Drainage Project and the Thomas the Douglas Waterline Extension (DEP Project ID#303). Mr. Pennington has substantial construction experience gained while administering the construction contract on over 100 projects and while serving as the Assistant Project Manager Prospect Valley Highwall No. 4, and Zebbs Creek projects. Hawkinberry hollow is in the final review stage. He served as project manager on the Pines Country Club (Ponds) Subsidence project (cancelled) and serves as project manager for As the former manager of the St. Albans Office of Triad Engineering and a founder of Civil Tech, Mr. Pennington has controls, dams, as well as private, industrial, and municipal projects involving topographic mapping, geotechnical He has been responsible for 147 AML projects, 44 dam modification projects, landslides, mine drainage/portals, erosion, shafts, burning refuse, and surface/subsurface many large commercial, private, and industrial projects. Mr. Pennington has a working knowledge of AML projects Blowout Emergency AML project. Design work is complete for the Winifrede McFann Portals Project Cambria Portals, on the USACOE Moorefield Flood Levee Project as an employee of Heeter Construction of Spencer, West Virginia. EDUCATION (Degree, | Year, Specialization) analysis, and civil site development. including; subsidence,

BSCE/1977/Civil Engineering Undergraduate Degree - WVU MSCE/1985/Soils and Foundations/WVCOG

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Association of State Dam Safety Officials (ASDSO) American Society of Civil Engineers (ASCE)

	State)
	Year,
	(Type,
THE PERCHANT	STRA

CE/1995/NC CE/1988/KY CE/1988/OH CE/1981/WV PS/1995/WV

data but keep to essentials) NAME & TITLE (Isst First Middle Int)	ים פתגתע	ODDITATION TOTAL AND TOTAL	
מ יוורי) בוופר, בוופר, שוממום ווורי)		- 1-	
nnifer E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERTENCE.	YEARS OF DOMESTIC
Vice Fresident - Frincipal Engineer	12	22	WAIEKLINE DESIGN EXPERIENCE: 0
Brief Explanation of Responsibilities			
COMPANY RESPONSIBILTIES		PROJECT RESPONSIBILITIES	
☐ COMPANY MANAGEMENT ☐ PROJECT PLANNING AND DIRECTION	□ HYDROLOGY AND HYDRAY □ FLOOD ASSESSMENT □ EROSION CONTROL □ STORM WATER CONTROL □ GEOTECHNICAL ANALYSI □ LANDSLIDE ANALYSIS ANI □ RETAINING WALL DESIGN □ DAM MODIFICATIONS □ ANNUAL DAM INSPECTION □ COMMERCIAL CIVIL SITE	HYDROLOGY AND HYDRAULICS FLOOD ASSESSMENT EROSION CONTROL STORM WATER CONTROLS GEOTECHNICAL ANALYSIS LANDSLIDE ANALYSIS AND DESIGN RETAINING WALL DESIGN DAM MODIFICATIONS ANNUAL DAM INSPECTIONS COMMERCIAL CIVIL SITE DEVELOPMENT	
Pennington is a multi-discipli technical engineering projects ign/rehabilitation, civil site incering. While with Triad, sh the analysis of the Rock Branc ign engineering associated with Zebb's Creek. Ms. Pennington's formance of geotechnical analys has expertise in the use of HE lepoint computer modeling softw. CATION (Degree, Year, Specializ E/1988/Civil Engineering Underg BERSHIP IN PROFESSIONAL ORGANIZ rican Society of Civil Engineer ociation of State Dam Safety Of	engineer who has served as project plving subsurface investigation, geoslopment, storm water controls, etc. srformed geotechnical analysis for mandslide Project in Kanawha County. Sent AML projects including Thomas Sies and responsibilities at Civil T civil site design, dam modification HEC2, Dams2, Flowmaster, Hydrocad, nate Degree - University of Kentucky ate Degree - University of Kentucky ate Degree - University of Kentucky ate Degree - University of Fentucky ate Degree - University of Fentucky ate Degree - University of Fentucky ates Degree - University of Fentucky ates Degree - University of Fentucky BNS at SECTER BNS	manager on many lotechnical analysis. She is a former many AML projects Ms. Pennington h Sunrise Sanitation of design, and hydrasign, and hydraspell, PCstable SPW911, PCstable RATION (Type, Year 2/WV	manager on many large and complex civil and sotechnical analysis, dam Secondary commers senior engineer with Triad many AML projects and was directly responsible for Ms. Pennington has also beer responsible for Sunrise Sanitation, Prospect Valley, Cambria, Tech include planning, direction, and nesign, and hydrologic/hydraulic analysis. SPW911, PCstable 5 and 6, Autocad, and **RATION (Type, Year, State) **RATION (Type, Year, State) **PATION (Type, Year, State)
HISTOR keep t	AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int)		VENDE OF BUREFURE	

	YEARS OF AML DESIGN EXPERIENCE:		YEARS OF DOMESTIC
Kessler, Robert R Geologist	0	EXPERIENCE: 12	WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities			
Mr. Kessler is responsible for all geo Tech. Projects include mining subsid modifications throughout West Virginia.	ull geologic studies/investigations subsidence investigations, blasting	ns required to support engineering ting studies, and geologic studies	ering services for Civil tudies for nearly 40 dam
EDUCATION (Degree, Year, Specialization	cion)		
 B.S Geology - 1965 - Ohio University Post Graduate Work - 1965 to B.S Mathematics - 1980 - University 	sity to 1966 - Geology - Ohio University ity of Charleston	ersity	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	IIONS	REGISTRATION (Type, Year, St.	State)
13. PERSONAL HISTORY STATEMENT OF PRI data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPO	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN	
Arthur, Charles D CADD Designer & Survey Crew Party Chief	0	EXPERIENCE: 8	WATERLINE DESIGN EXPERIENCE:
xplanation of Respons			
software, s	ion of other draftsmen and party chief, and evaluation	preparation of design drawings of mine maps and subsidence.	s using Autocad and Mr. Arthur has served
☐ Thomas Mine Dra	ing recent projects. out AML Projects, Thomas, WV		
Highwall	Shinnston, WV		
■ Winifred McFann Portals, Winifrede, ■ Nellis (Smith) Drainage Nellis MV	Winifrede, Kanawha County, WV		
Creek HW#2, Barbou	County, WV		
Cambria Portals, Harrison County,	Δ		
☐ Thomas Sewer-Stormwater Segregation	18, Marion County, WV Segregation Droiect Thomas WW		
Stormwater Improv	Thomas, WV		
☐ Nearly 40 dam modification projects	thro		
Holiday Inn Express, Mineral Wells,	Tells, WV		
forms fieldivil project	WV 1g necessary to support ed by our company.	engineering services and develop	topographic mapping
EDUCATION (Degree, Year, Specialization) Pre-blast Surveyor Training - May 2003 -			
ing/1080 hours	0 - Ben Franklin Ca	eer and Tech. Ed. Ctr., Dunbar,	E, WV
Welding/1,320 hours - June 1997 - Ber	Ben Franklin Career and Tech. Ed		

	TO COMPLETE AML																							PERCENT COMPLETE	
	OFFICE WHICH WILL BE USED																					RECORD		ESTIMATED CONSTRUCTION COST	The second secon
al Center, Richmond, VA	AVAILABLE IN THE PRIMARY O										Design Program	support programs.									vo support equipment			NATURE OF YOUR FIRM'S RESPONSIBILITY	
Welding/72 hours - Dec 1993 - Richmond Technical	SOFTWARE AND EQUIPMENT			0			6 uc				heet Pile Wall Des	Excel, and other office sup		Cherokee	ď	lters	as	1050C Plotter	rinters Printer	Total Station	tripods, targets, and survey	ON WHICH YOUR FIRM	CONTRACTOR CONTRACTOR	ND NAME AND ADDRESS OF OWNER	
Welding/72 hours - De	14. PROVIDE A LIST OF DESIGN SERVICES	Software:	Microstation	☐ Eaglepoint 2009 ☐ HEC-1	☐ HEC-2☐ HECRAS	HEC-HMS	Hydrocad version	☐ Flowmaster	Sewercad	<pre>■ watercad</pre> □ PCstable 5	11 - Pile	Word Perfect, E Equipment:	1 4WD Pickup	Grand		4 Desktop Computers3 Laptop Computers	☐ 4 Digital Cameras	H :	☐ Z HP Deskjet Printers ☐ 1 Color Laser Printer	1 Leica TC600	<pre>☐ 1 Leica Level</pre> ☐ Rods, prisms, t	ACTIVITI	בתעים באירוו	FROJECT NAME, TYPE AND LOCATION	

Cacanon State Dark Dam	Drad Loclio	Homogen Line Manner	200	
Modifications	WVDNR Parks & Recreation	ropographic mapping Design	000,000,1	Mapping 100% Design 30%
		Permitting		Permitting 0%
	Capitol Complex, Building	Bidding		
	Charleston, WV 25305	Contract Administration		Const. Monitoring 0%
	2			Construction expected 2012
			- 1	
Dreston Compt. MII	Gregg Smith	ping	\$ 1,000,000	Design 100%
rescon county, wv	NVDEF-FEED	Subsurface Investigation		Permitting 100%
		Design		Bidding 0%
		Fermi cornig		
		Construction Monitoring		Construction expected 2012.
WL Extension	Steve McBrayer	ign Serv	\$ 500,000	Design 100%
	WVDEP-AMI	Subsurface Investigation		Bidding 0%
Thomas	Charlett with 25201			Const. Monitoring 0%
inomas, incher councy, wv				Construction expected 2012.
			- 1	
Modifications		Topographic Mapping	\$ 1,750,000	Mapping 100%
	Wound Fairs & Recreation	Design		Design 100%
	Capitol Complex. Building	rermitting Bidding		Permitting 100%
	723	South the second second		Bidding 50%
	Charleston, WV 25305	Contract Administration		Const. Monitoring 30%
				Concract Admin 30%
				construction Pipestem
				C
	Tim Lemasters	Topographic Mapping	\$ 350,000	Mapping 100%
and Dra		Subsurface Investigation		Design 85%
Marion County, WV	209 South Main Street Philippi WW 26416	Design		Permitting 50%
	>	Permitting		
		Bidding		Construction expected 2012
Ö.	octor	Mapping	\$ 1,000,000	Mapping 100%
	WVDEF - CAK HILL, WV	Design		Design 95%
		Permitting		Permitting 100%
		Bidding		Bidding 08
17 ÷ + 1			- 1	expected
Wille Dam Dam Modifications	Don Wnite	Topographic Mapping	\$ 30,000	Mapping 100%
Sissonville WW	Sissonxxille Wiv 25320	Design		Design 100%
	>	Permitting Bidding		Permitting 100%
		Bruding		
		Contract Administration		Const. Monitoring 0%
				Construction expected 2012
ביביר במיםד המת מה משמאווא וגיההה	E			
Ö	S: FIVE	TOTAL ESTIMATED	ATED CONSTRUCTION COSTS:	\$ 6,130,000
The second name of the second na				

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS	A	SUB-CONSULTANT TO OTHERS	RS None		
PROJECT NAME, TYPE NATURE OF FIRMS AND LOCATION RESPONSIBILITY	FIRMS NAME AND ADDRESS ILITY OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CC	CONSTRUCTION	N COST
			ENTIRE PROJECT	YOU RESPO	YOUR FIRMS RESPONSIBILITY
LAST 5	YEARS ON WHICH YOUR FIRM WAS	THE DESI	ENGINEER OF RECORD		
PROJECT NAME, TYPE AND LOCATION		ESTIMATED (ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
		\$ 250,000		2009	YES
Thomas Sunrise Sanitation Mine Blowout Thomas, Tucker County, WV	Greg WVDE 209 Phil	\$ 250,000		2009	YES
Prospect Valley Highwall #4 Shinnston, Harrison County, WV		-		2011	YES
Winifrede, Kanawha County, WV	Dean Stiltner WVDEP-AML 116 Industrial Drive Oak Hill, WV 25901			2011	YES
Zebb's Creek Highwall #2 Junior WV, Barbour County, WV	Gregg Smith WVDEP-AML 209 South Main Street Philippi, WV 26416	\$ 200,000		2011	YES
Cambria, Harrison County, WV	Tim Lemasters WVDEP-AML 209 South Main Street Philippi, WV 26416	UNKNOMN		2011	YES

Mt. Storm Gate Modification Mt. Storm Power Station	Mr. Patrick Flaugher Dominion Generation Mt. Storm Power Station Dominion Energy Inc. HC 76 Box 430 Mt. Storm, WV 26739	UNKNOWN	2011	YES
Pipe and Gate Repair Lewis Dam Le Rock SP Co., WV	Brad Leslie WVDNR Parks & Recreation Section Capitol Complex, Building 3, Room 723 Charleston, WV 25305	\$ 280,000	2011	YES
Thomas (Sunrise Sanitation) Mine Blowout City of Thomas, Tucker County, WV	Ron Lane WVDEP-AML 105 South Railroad Street Philippi, WV 26416	\$ 250,000	2009	YES
	Sterlin Rebuck NewPage Corporation 300 Pratt Street Luke, MD 21540	\$ 250,000	2009	YES
Phase I - Unit 3 Ash Handling Area Pavement Replacement Design Mt. Storm Power Station Mt. Storm, WV	Patrick W. Flaugher Dominion Energy Inc. HC 76 Box 430 Mt. Storm, WV 26739	\$ 500,000	2009	YES
Flow & Temperature Monitoring Weir Stony River Mt. Storm Power Station Mt. Storm, WV	Patrick W. Flaugher Dominion Energy Inc. HC 76 Box 430 Mt. Storm, WV 26739	\$ 250,000	2009	YES
Fairfield Inn & Suites Weirton, WV	Michael Holtz MPH Hotels 490 East Route 22 North Barrington, IL 60010	\$ 2,500,000 (Estimated)	2009	YES
Deegan & Hinkle Dams Dam Modifications Bridgeport, WV	Tom Brown - City Engineer City of Bridgeport 515 West Main Street Bridgeport, WV 26330	\$ 1,500,000	2008	YES
Flip Bucket Stabilization Mt. Storm Lake Dam Mt. Storm Power Station Mt. Storm, WV	Patrick W. Flaugher Dominion Energy Inc. HC 76 Box 430 Mt. Storm, WV 26739	\$ 750,000	2008	YES

Stormwater Improvements Ditch and Piping Design City of Thomas, WV	Mayor Dorothy Wilson City of Thomas P.O. Box 463 Thomas, WV 26292	\$ 750,000	2007	YES
Parking Lot Expansion Civil Design & Permitting Mt. Vernon Baptist Church Hurricane, WV	Mr. Brad Leslie Mt. Vernon Baptist Church 2050 Mt. Vernon Road Hurricane, WV 25526	\$ 50,000	2007	YES
Holiday Inn Express Civil Design for Hotel & Permitting Mineral Wells, WV	Michael Holtz MPH Hotels 490 East Route 22 North Barrington, IL 60010	\$ 2,500,000 (Estimated)	2007	YES
Bailey and Lemley Dams Dam Modifications & Access Improvements Core, WV	Dennis Kincer WV Division of Natural Resources Wildlife Resources Section Capitol Complex Building 3, Room 816 1900 Kanawha Blvd., East Charleston, WV 25305	\$ 1,000,000	2007	YES
n Dam uction Below on e, WV	Dennis Kincer WV Division of Natural Resources Wildlife Resources Section Capitol Complex Building 3, Room 816 1900 Kanawha Blvd., East Charleston, WV 25305	\$ 450,000	2005	YES
ation	. 38 L	\$ 250,000 (Estimated)	2005	YES
Moncove Dam Dam Modification Moncove State Park	Mr. Brad Leslie WV Division of Natural Resources Parks and Recreation Section Capitol Complex, Building 3, Room 723 Charleston, WV 25305	\$ 400,000	2005	YES
18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS RESPONSIBLE) PROJECT NAME, TYPE NAME AND ADDRESS AND LOCATION OF OWNER	OUR FIRM HAS None ESTIMATED OF YOUR	A SUB-CONSULTANT TO OTHER FIRMS RUCTION COST YEAR CONSTRUCT S PORTION (YES OR 1)	DICATE	PHASE M ASSOCIATED WITH

19. Use this space to provide any additional information or description of resources supporting your firm's qualification to perform work for the West Virginia Abandoned Mine Lands Program. Civil Tech provides engineering services to wide range of clients including, the Philippi, Charleston, and Oak Hill Offices of the WVDEP-AML, the City of Thomas, City of Bridgeport, NewPage Corporation, Mt. Top PSD, Dominion Generation - Mt. Storm & North Branch Power Stations, Duke Energy, Huntersville, NC, WVDNR Parks and Wildlife Sections, American Electric Power - John Amos Plant, WV American Water, and other private concerns and contractors. Current and recent AML projects include AMD, Highwall Reclamation, Portals, Subsidence Abatement, and a waterline extension. Our experience with impoundments, dam breach/reclamation, civil site design, infrastructure, & site grading combined with our AML experience and environmental/permitting knowledge makes our firm most qualified for AML Design Projects.	description of resources supporting your firm's qualifications ds Program. Civil Tech provides engineering services to wide of Oak Hill Offices of the WVDEP-AML, the City of Thomas, City on Generation - Mt. Storm & North Branch Power Stations, Duke ons, American Electric Power - John Amos Plant, WV American and and recent AML projects include AMD, Highwall Reclamation, our experience with impoundments, dam breach/reclamation, ed with our AML experience and environmental/permitting rojects.
	Date: March 1, 2012
Signature: Title: President Printed Name: Mark E. Pennington	

AMI and REI ATED BRO IECT EXPERIENCE MATRIX	SOIECTE	XPERIENC	TAMA	AIQ.																	1	
							PR	DJECT	EXPERI	PROJECT EXPERIENCE REQUIREMENTS	EQUIRE	MENTS					α.	PRIMARY STAFF PARTICIPATION/CAPACITY "" M=Management P=Professional	MARY STAFF PARTI	RTICIPAT	CIPATION/CAPA(P=Professional	ACITY
PROJECT	Exp. Basis C=Corp. P=Personal	Additional Info Provided in Section (s)	Abandoned Surface Mine Reclamation	Abandoned Deep Mine Redamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications Water Quality	Evaluation/Nitigation/ Replacement Construction	Inspection/Manageme nt	Water Treatment Eq;ulpment/Structure	Removal Stream Restoration	Geotechnical/Stability	Mark Pennington	Jennifer Pennington	Robert Kessler		H. Thomas Brown	
Thomas Sunrise Sanitation Mine Drain	O	¥		×		×											M/P			0.	1	
Thomas Sunrise Sanitation Mine Blowout	v	A		×	×	×					×		×			×	M/P			Δ.	۵.	
Prospect Valley Highwall No. 4	O	∢	×	×	×	×					×		×			×	M/P	<u>a</u>	Δ.	0.	0.	
Winifred (McFann) Portals	O	A		×	×	×					×		×				M/P	Q.	۵	Q.	٥	
Douglas WL Extension	O	A									×	×	×				M/P	Δ.	0.	۵.	٥	
Pines CC Subsidence	O	A				×			×		×	×	×			×	M/P	ο.	۵.	O.	0.	
Cambria Portals & Drainage	O	A		×	×	×					×	×	×			×	M/P	a.	۵.	O.	Q.	
Zebbs Creek HW#2	O	A	×			×					×		×			×	M/P	Δ.	۵.	0.	Δ.	
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Burford Slide	Q.	¥	×	×	×	×					×					×	M/P	0.				
Pine Creek Shaft	a.	4		×	×						×			×			M/P	۵				
Milburn Refuse	O.	A	×			×		×			×					×	M/P	Œ				
Oxley Subsidence	O	A							×								M/P		ο.	۵		
Basaore Subsidence	O	A							×								M/P	۵	۵	Q.		
Conn Subsidence	O	A					\dashv		×								M/P	Δ.	Q.	۵		
Turner Slide	۵	A	×	×		×					×					×	M/P	ο.				
Thomas Stormwater Improvements	v	8.2				×			×		×		×	×		×	MP	. α.		۵		
Thoms Stormwater/Sewer Segregation	O	B.2				×					×		×				M/P	۵		۵	۵	
Deegan and Hinkle Dam Modifications	O	B.3				×					×		×	×		×	M/P	. α.	۵	. α	Δ.	
Bailey and Lemley Dam Modifications	O	B.3				×					×		×	×		×	M/P	۵	O.	α.		
Fleming Street Stabilization	O	8.4				×					×		×	_		×	M/P	۵	۵	۵		
Mt Storm Flip Bucket Stabilization	O	B.3				×					×		×	>		· >	2					
* List whether project experience is corporate or personnel based or both.	perience is	corporate	or perso	nnel bas	sed or bo	oth.										<	INIT					

** 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.

RFQ No.		

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 owned 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 exceed 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: Civil Tech Engineering Inc.	
Authorized Signature: Date:	2/28/12
State of Dest Vilginia	, ,
County of Potracin, to-wit:	
Taken, subscribed, and sworn to before me this day of +eb	, 20/2.
My Commission expires 1 9 202	\rightarrow
AFFIX SEAL HERE NOTORY PUBLIC	7
OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC J P Owens City National Bank 100 Poplar Fork Road Scott Depot, WV 25560 My Commission Expires Nov. 9, 2021	Purchasing Affidavit (Revised 12/15/09)
## 25500 Expires Nov. 9, 2021	Tarana I managa managa

SECTION A - ABANDONED MINE LANDS EXPERIENCE

		TOWN ABANDONED WINE LANDS EAR ENTENCE
1.		More than 25 years combined experience with AML Projects: The principals of Civil Tech Engineering, Inc. have gained AML experience providing professional services to the OSM, WVDEI and BRIM on abandoned mine lands projects including: Subsidence, Landslides, Mine Drainage, Mine and Refuse Fires, Mine Shafts, Water Impoundments, and Pollution of Ground and Surface Water. Recent AML Projects performed for the WVDEP AML&R Offices located in Philippi, Oak Hill, and Charleston, WV includes:
	0000000000000000	Thomas (Sunrise Sanitation) Mine Drainage Project (DEP14171). Complete June, 2010. Thomas Sunrise Sanitation Mine Blowout (Emergency Project). Complete Spring, 2009. Prospect Valley Highwall #4 (DEP 14433). Complete 2011. Winifrede (McFann) Portals (DEP 14479). Complete 2011. Pines County Club (Ponds) Subsidence (DEP14633). Preliminary Design – Project Cancelled. Douglas Water Line Extension (DEP14951). Design Complete awaiting permits. Cambria Portals & Drainage Design (DEP 14845). Construction started fall 2011. Birds Creek Portals (DEP 15065). Final Design Complete. Awaiting Prebid. Nellis (Smith) Drainage (DEP15002). Design Complete. Prebid Scheduled 2.22.12 Zebb's Creek Highwall #2 (DEP14991). Construction Complete Fall 2011. Hawkinberry Hollow Portals and Drainage (DEP 15220). Final Design Complete and awaiting prebid. Stowe Refuse Piles (DEP15586). Awaiting Contract
2.		Principals of Civil Tech were responsible for planning, performing, and managing past AML work performed by Triad prior to February of 1996: Prior to forming Civil Tech, Mark Pennington managed the branch office of Triad Engineering in St. Albans, West Virginia. Jennifer Pennington was a senior engineer in that office. While employed by Triad, our principals were responsible for the performance and/or management of virtually all AML projects performed until February of 1996 when we resigned from Triad. A total of approximately 137 AML projects were completed during the period of 1990 to early 1996.
3.		Civil Tech Mine Subsidence Determinations: Our corporate AML experience is detailed on the enclosed CCQQ forms. Our recent corporate experience includes examination of structures to determine cause of damage and mining relatedness. We have performed these mine subsidence determinations using information on file with the WVGS, and with the assistance of AML personnel and records. Services have been provided for insurance companies and BRIM.
4.		Civil Tech has demonstrated experience and professional capability in all aspects of engineering and support services required to successfully complete AML Projects. Since forming Civil Tech, our staff has successfully completed over 1200 projects. Services provided have included: surveying and mapping, subsurface investigations, laboratory analysis, geotechnical engineering, structural design and assessment, environmental engineering, sewer & stormwater projects, land use/planning, reclamation, hydraulic/hydrologic studies, flood routing, dam break analysis and risk assessment, design engineering, plans, specifications, bidding, contract administration, and construction monitoring. See enclosed CCQQ forms for Civil Tech Engineering, Inc. and Sections B.1 thru B.4.

5. As highlighted in this submittal, our experience with the design of civil infrastructure and dam design combined with our AML experience makes our company uniquely qualified for AML Design Projects.

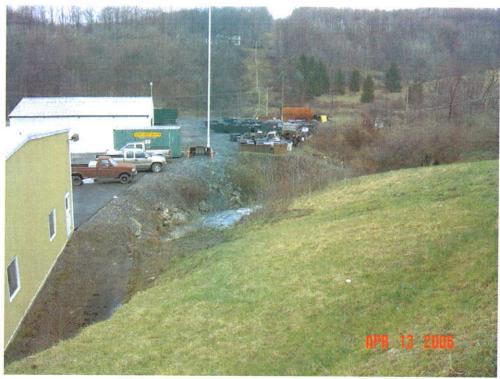
A partial listing of AML experience gained while employed by Triad during 1990 to 1996 is presented in this submittal along with other related projects which include

photographs to showcase our capability to provide services for AML projects.

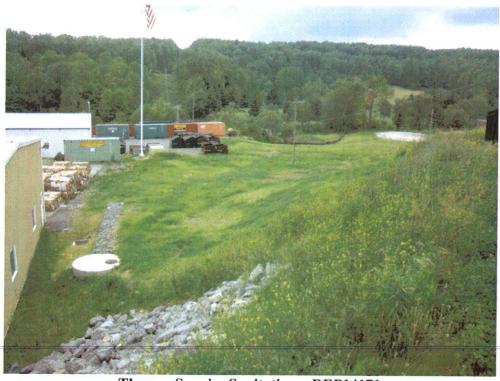
	AML Projects Performed in 1990
	Approximately 20 projects were completed.
	These projects included: mine drainage, subsidence, and landslides.
	Typical Projects included:
Carb	ondale Portals, Smithers, WV
<	AML Representative: Neil Robinson
<	Services Provided: Drilling, Sampling, Engineering
Tupp	oers Creek (Burford) Landslide, Kanawha Co., WV
<	AML Representative: Michael Richardson
<	Services Provided: Surveying, Mapping, Drilling, Stability Analysis, Mine Drainage Control, Mine
	Seals, Plans, Specifications, Bidding Assistance.
	AML Projects Performed in 1991
	Approximately 20 projects were completed.
	These projects included: landslides, mine shafts, subsidence, mine and refuse
	fires, and mine drainage.
	Typical Projects included:
Pine (Creek Mine Shaft, Logan Co., WV
<	Work Performed for AML
<	Services Provided: Surveying, Mapping, Drilling, Plans, Specifications, Bidding Assistance.
Mona	wille School Subsidence Determination, Logan Co., WV
<	Work Performed for AML
<	Services Provided: Drilling and Engineering
	AML Projects Performed in 1992
	Approximately 25 projects were completed.
	These projects included: landslides, subsidence, mine shafts, refuse fires, and
	mine drainage.
	Typical Projects included:
McMi	illian Drainage, Davis Creek, Kanawha Co., WV
<	Work Performed for AML
<	Services Provided: Surveying, Mapping, Drilling, Lab, Engineering.
72 - 22 - 22 - 22 - 22 - 22 - 22 - 22 -	
	urn Burning Refuse, Kanawha Co., WV Work Performed for AML
<	Services Provided: Surveying, Mapping, Drilling, Lab, and Engineering
	Services Provided. Surveying, Mapping, Dinning, Lab, and Engineering
	AML Projects Performed in 1993
	Approximately 26 projects were completed.
	These projects included: aerial surveying and mapping, landslides, subsidence,
	and mine drainage.

	Typical Projects included:				
Eckm	an Refuse Pile, McDowell Co., WV Work Performed for AML				
<	Services Provided: Ground Control, Aerial Photography, Aerial Mapping.				
Oxley Subsidence and Slide, Davis Creek, Kanawha Co., WV					
<	AML Representative: Michael Richardson				
<	Services Provided: Surveying, Drilling, Engineering				
	AML Projects Performed in 1994				
	Approximately 27 projects were completed.				
	These projects included: aerial surveying and mapping, landslides, subsidence,				
	and mine drainage.				
	Typical Projects included:				
Turne	er Landslide, Belle, WV				
<	Work Performed for AML				
<	Services Provided: Surveying, Mapping, Drilling, Sampling, Plans, Specifications, Bidding				
	Assistance				
Samm	ons Drainage, Chauncey, WV				
<	Work Performed for AML				
<	Services Provided: Drilling and Engineering				
	AML Projects Performed in 1995				
	Approximately 19 projects were completed.				
	These projects included: aerial surveying and mapping, landslides, subsidence,				
	burning refuse, and mine drainage.				
	Typical Projects included:				
	as Subsidence, Crab Orchard, WV				
<	AML Representative: Michael Richardson				
`	Services Provided: Drilling, Sampling and Engineering				
Big Cu	ıb Creek Refuse Pile				
<	AML Representative: Dean Stiltner				
<	Services Provided: Aerial Photography, Ground Control, Aerial Mapping				

Sample design drawings and photographs from our recent AML Projects follow this page.



Thomas Sunrise Sanitation – DEP14171



Thomas Sunrise Sanitation – DEP14171



Prospect Valley Highwall #4 – DEP14433



Prospect Valley Highwall #4 – DEP14433



Prospect Valley Highwall #4 – DEP14433



Prospect Valley Highwall #4 – DEP14433

FIGURE 1

FIGURE 2

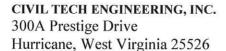
SECTION B.1 - HISTORY OF FIRM

<u>Services:</u> Civil Tech Engineering, Inc. has provided in-house professional engineering services since 1996 in the following areas of expertise.
AML Design Services Civil Design/Consulting Wastewater Treatment and Collection Dam Safety, Design, and Rehabilitation Geotechnical Engineering Surveying & Mapping Construction Contract Administration/Construction Monitoring
<u>Background:</u> Civil Tech Engineering Inc. was formed in 1996 by our principals, Mark and Jennifer Pennington. Prior to forming Civil Tech, Mark Pennington managed the branch office of Triad Engineering in St. Albans, West Virginia. Jennifer Pennington was a senior engineer at Triad. <u>Our principals have a combined experience of 55 years in civil and geotechnical engineering.</u>
<u>Typical Projects and Capability:</u> Since forming Civil Tech, our staff has provided professional engineering services for a variety of clients and projects involving:
AML Design Services 48 Dam rehabilitation and design projects Site planning, development, and permitting Sanitary sewer/storm water segregation Storm water evaluation and design Foundation investigation and design Foundation investigation and design Construction storm water pollution prevention plans and permitting USACOE 404 Permitting. Topographic mapping to support our engineering projects Construction monitoring and testing for our design projects Construction contract administration for our design projects Cause of damage assessment of residential and commercial structures for insurance companies Subsidence Claims for BRIM
<u>Submittal:</u> We have prepared this submittal to illustrate our complete capabilities in civil engineering. The reader will find information on a variety of projects intended to illustrate the quality of our work, complete capability, and qualifications to provide the
engineering services for most civil engineering projects

SECTION B.1 - OFFICE, STAFF, &

EQUIPMENT

Office: All work is performed from our office located in Hurricane, West Virginia. The physical address, telephone number, email address and staff information is provided below:



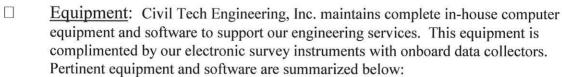
Phone 304-757-8094 Fax 304-757-8095

email <u>civiltech1@frontier.com</u>

Principals:
Mark E. Pennington MS, PE, PLS
Jennifer E. Pennington PE, PLS

☐ Staff:
H Tom Brown PE – Senior Engineer
Robert Kessler - Senior Geologist
Charles Arthur Jr. - CADD
H Neal Craig - CADD

Resumes: Resumes for key personnel and staff follow this section.



□ Software: HEC1, HEC2, HECHMS, HECRAS, Dams2, WaterCad, SewerCad, HydroCad, Flowmaster, PCStable5, AutoCivil2010, Eagle Point Design Software, and office support programs including Word and Excel.

Equipment: Seven computers, Two Digital Cameras, HP 1050C Plotter, HP inkjet and laser printers, fax, copier, and necessary office support.

□ Vehicles: Three 4 wheel drive





Survey: Leica TC600 Total Station, Leica Automatic Level, Rods, Tripods, Prisms as required to support our survey crew.

RESUME OF MARK E. PENNINGTON PRESIDENT – CIVIL TECH ENGINEERING INC. 04 - 06 - 11

EDUCATION:

B.S.C.E. - Civil Engineering - 1977 - West Virginia University M.S.C.E. - Civil Engineering - 1985 - West Virginia College of Graduate Studies

PROFESSIONAL REGISTRATION:

Registered Professional Engineer - West Virginia, Ohio, Kentucky, and North Carolina Professional Land Surveyor - West Virginia

EMPLOYMENT HISTORY:

Principal Engineer

CIVIL TECH ENGINEERING, INC.

President

March 1, 1996 to Present

Chief Engineer

Heeter Construction, Inc., Spencer, WV

Vice President

February 1996 to April 1997

Principal Engineer

Triad Engineering, Inc., St. Albans, WV

Vice President

September 1980 to February 1996

Staff Engineer

American Electric Power Service Corporation

-Civil Engineering Laboratory - May 1977 thru July 1978 -Ash Utilization & Research - August 1978 to Sept. 1980

PERTINENT EXPERIENCE:

<u>General:</u> Mr. Pennington is one of the founding principals and president of Civil Tech Engineering Inc. In this capacity, he is responsible for overall management of the company, business development, proposal preparation, and the direction/technical review of all engineering work produced by the company.

After graduation from college, Mr. Pennington worked as a staff engineer for American Electric Power. He initially performed various engineering tasks for the Civil Engineering Lab in New Haven, West Virginia. He later joined the ash utilization and research section where was involved with landfill design and testing. Mr. Pennington authored the "Fly Ash Structural Fill Inspection and Training Manual" dated February 15, 1979 which is still in use today in the AEP system. Mr. Pennington currently manages ongoing compaction testing at the John Amos Plant Quarrier Landfill.

Prior to establishing Civil Tech Engineering, Mr. Pennington served as Branch Manager of the St. Albans Office of Triad Engineering, Inc. In this capacity, he supervised and coordinated all projects performed by the St. Albans Office and managed over 60 employees including; engineers, geologists, technicians, designers, draftsmen, environmental, surveyors, drillers, marketing, and clerical personnel. Mr. Pennington's areas of expertise include: general civil design, dam design/rehabilitation/safety, geotechnical engineering, hazardous and municipal waste

design/permitting, hydraulics, hydrology, groundwater studies, laboratory testing, surveying and mapping, drilling, construction inspection/testing, and construction project/contract administration. Mr. Pennington also reviewed and approved mine permits for the Logan Office of Triad Engineering.

Mr. Pennington has provided and directed engineering services on over 1500 projects since forming Civil Tech Engineering, Inc. These projects have been performed for clients including: WVDEP-AML, BRIM, Steel of West Virginia, FMC, WVDNR, WVDEP, Dominion Generation, Huntington Area Development Authority, City of Belington, Culloden PSD, City of South Charleston, City of Thomas, Cedar Lakes Conference Center, Middleport Terminals, Contractors, Architects, Private Home Owners, and insurance companies. Mr. Pennington has been responsible for a wide range of engineering projects and services including:

- \$ Abandoned Mine Land Projects
- \$ Dam Inspection, Design, and Rehabilitation
- \$ Foundation Investigations for Industrial, Commercial, and Residential Structures
- \$ Civil Design for Residential/Commercial Projects.
- \$ Damage Investigation/Evaluation of Commercial/Residential Structures.
- \$ Mine Subsidence Claims
- \$ Municipal Landfill Design/Permitting
- \$ Municipal Sewage Design and Permitting
- \$ Hazardous Waste Landfill Design/Permitting
- \$ Groundwater Contamination Studies
- \$ Stormwater Design and Control
- \$ Erosion and Sediment Control Design and Permitting
- \$ Surveying and Mapping
- \$ Construction Quality Control
- \$ Construction Contract Administration

<u>Insurance and BRIM Investigation:</u> During Mr. Pennington=s 33 year career, he has provided professional engineering services to insurance companies including State Farm, Nationwide, St. Paul, Westfield, Travelers, Allstate, Prudential, and Hartford. Since 2002, Mr. Pennington has also investigated numerous mine subsidence claims for BRIM. Services provided have included examination/evaluation of damage to various structures including:

- \$ Light Commercial Buildings
- \$ Residential Houses
- \$ Manufactured Houses
- \$ Small Bridges
- \$ Retaining/Basement Walls
- \$ Pavements/parking lot surfaces
- \$ Chimneys/fireplaces
- \$ Municipal Concerns

Mr. Pennington is experienced in the assessment of damage caused by wind, flood, snow, erosion, fire, leaking utility lines, earth movement (problem clay soils, settlement, landslides, etc.), vehicle impact, structural defects/failure, and manufacturing defects (related to housing), blasting and subsidence related to mining.

Civil Design, Municipal Sewage and Water Service: Mr. Pennington is the design engineer currently working on a \$ 3,000,000 sanitary sewer/storm water segregation project for the City of Thomas, West Virginia. He routinely assists the city of Thomas with the evaluation of storm water problems and has been responsible for the design and construction of a \$ 750,000 storm water improvement project which was completed in 2006. Past experience with general civil engineering including utility and roadway infrastructure, site grading, storm water, and permitting has included large commercial and private projects such as Southridge Centre (100 acres), First Church of God (10 acres), Ridgeline Developments (100 acres), Dudley Farms (50 acres), and recent 2 acre developments for hotel sites in Mineral Wells, and Weirton, West Virginia.

<u>Dam Safety:</u> Mr. Pennington is qualified in the field of dam safety, rehabilitation, and design. He is responsible for performing over 65 annual safety inspections for various dams and clients throughout West Virginia and surrounding states. Mr. Pennington has been responsible for the design of over 44 dam design and rehabilitation projects. His areas of expertise include the use of Roller Compacted Concrete (RCC) in the rehabilitation of dams. Mr. Pennington made a presentation at the ASCE fall technical conference in 1994 discussing the use of Roller Compacted Concrete as overtopping protection at the Anawalt Lake Dam. A partial list of typical dam design and rehabilitation projects for which Mr. Pennington has been responsible include:

- No. 2 Impoundment Dam Modification Union Carbide, Sistersville, WV
- \$ Anawalt Lake Dam (new construction) WVDNR McDowell Co, WV
- \$ Warden Lake Dam Modification WVDNR Hardy Co., WV
- \$ Seneca Lake Dam Modification WVDNR Pocahontas Co., WV
- \$ Teter Creek Lake Dam Modifications WVDNR Barbour Co., WV
- \$ Belington Water Supply Dam Modifications City of Belington Barbour Co., WV
- \$ FMC Tailings Pond Dam Modifications FMC Corp.- Bessemer City, NC
- \$ Water Supply Dam Modifications Culloden PSD Culloden, WV
- \$ Joyce Lake Dam Modifications Joyce Properties Clarksburg, WV
- \$ Handley Dam WVDNR Pocahontas Co., WV
- \$ Thomas Dam Rehabilitation City of Thomas, WV
- \$ Old Pond 11 McClintic Wildlife Management Area
- \$ Wells Lock and Dam Emergency Repairs, Elizabeth, WV
- \$ Rollins Dam Emergency Repairs, Ripley, WV
- \$ Handley Dam Modifications, Pocahontas County, WV
- \$ Winterplace Dam, Raleigh County, WV
- \$ Anawalt Flood Damage Repairs, McDowell County, WV
- \$ Bailey and Lemley Dams, Monongalia County, WV
- \$ Wilson Big Hollow Dam, Hampshire County, WV
- \$ Burches Run Dam Height Reduction, Marshall County, WV
- \$ Mt. Storm Power Station Dam, Grant County, WV
- \$ Deegan and Hinkle Dam Modifications, Bridgeport, WV
- \$ Mill Run Water Supply Dam, Mt. Top PSD, Mt. Storm, WV
- \$ Canaan Valley Resort Water Supply Reservoir, Davis, WV

<u>Construction</u>: Mr. Pennington provided engineering and construction management services to Heeter Construction of Spencer, West Virginia in 1996 and 1997. He assisted Heeter with bidding, project management, and any technical problems requiring engineering expertise. During 1996 and early 1997 while with Heeter Construction, he served as the assistant project manager for the

construction of a 10 million dollar flood control levee designed by the US Army Corps of Engineers for the City of Moorefield, West Virginia. Mr. Pennington continues to provide bidding and construction consultation as well as value engineering proposals, waste site design, and other engineering services for Heeter Construction.

<u>US Army Corps of Engineers:</u> While with Triad Engineering, Mr. Pennington managed the Huntington District Corps of Engineers indefinite delivery geotechnical contract for a period of 3 years. During this time, he was responsible for the design of Charleston Haddad Riverfront Park, certification of Pond 16 (a small dam designed by the COE at McClintic WMA), landslide investigations, seepage/stability analysis for flood levees, and numerous re-analysis investigations for dams including Dillon and Beech City Dams in the State of Ohio.

<u>Mine Permitting/Surveying:</u> While employed by Triad Engineering, Mr. Pennington was responsible for review and approval of mine permitting and surveying operations conducted in the Logan, West Virginia Office of Triad.

WVDEP-AML Experience: Mr. Pennington was responsible for the recent completion of the Thomas (Sunrise Sanitation) Mine Drain Project located in the City of Thomas, Tucker County, West Virginia. He recently completed the design of an emergency project for AML involving a mine blowout which was threatening an existing commercial structure in Thomas, West Virginia. Since 2008, he has been responsible for and has successfully completed 8 AML projects. He was also responsible for all AML work produced by the St. Albans office of Triad Engineering prior to resigning from the company in early 1996. His work included proposal preparation, planning, direction, management, and performance of all engineering activity associated with Triad=s AML contract. Mr. Pennington was responsible for the successful completion of approximately 137 projects during the period from 1990 to 1996. His expertise includes the abatement of mine related problems associated with subsidence, blasting, landslides, mine drainage, refuse fires, mine fires, mine shafts, drainage, impoundments, and groundwater/surface water pollution. Since leaving Triad and forming Civil Tech, he has been responsible for the investigation of mine subsidence claims throughout West Virginia for BRIM and various insurance companies including State Farm and Nationwide. Prior to working with the WVDEP - AML, he worked with the Office of Surface Mining on similar projects. Mr. Pennington has 25 years of pertinent experience with the abatement of mine related problems.

RESUME OF JENNIFER E. PENNINGTON

PRINCIPAL ENGINEER 10-19-11

EDUCATION

BSCE - Civil Engineering - 1988 - University of Kentucky

CERTIFICATION/REGISTRATION

Registered Professional Engineer - West Virginia Licensed Land Surveyor - West Virginia

EMPLOYMENT HISTORY

Principal Engineer

Civil Tech Engineering, Inc., St. Albans, WV

March 1996 to Present

Senior Engineer

Triad Engineering, Inc., St. Albans, WV, 1988 to 1996

PERTINENT EXPERIENCE

Ms. Pennington has served as a team member and project manager on AML, civil design, and geotechnical projects involving abandoned mine land reclamation, subsurface investigation, geotechnical analysis, and dam design. She has been responsible for technical analysis and review of all AML projects completed by Civil Tech since 2008. She was responsible for all dam design and rehabilitation projects, and projects performed for the Huntington District Corps of Engineers (HDCOE) while employed by Triad Engineering during 1988-1996. Work performed on those projects and current projects for which she is responsible at Civil Tech Engineering include:

- \$ Geotechnical Investigation and Analysis
- \$ Civil Design
- \$ Hydrologic/hydraulic analysis using HEC-1, HEC-2, and Dams2 Computer Programs
- \$ Stability Analysis using UTEXAS2, PCStable5, and HDCOE Hand Check Methods
- \$ Seepage Analysis using graphical flow net and HDCOE mathematical methods
- Preparation of Project Narratives, Design Drawings, Specifications, Construction Schedules, Erosion and Sediment Control Plans, and Construction Cost Estimates.

Since the company was formed, Civil Tech Engineering has performed numerous dam safety inspections, dam breach analysis and risk assessments, geotechnical studies, and dam rehabilitation design projects. Civil Tech has also completed 8 AML projects since 2008. Ms. Pennington has been responsible for project management on these and many other large scale projects including design and extensive geotechnical/foundation investigations. She is proficient in organizing and maintaining scheduling during the course of long term projects. She has complete familiarity with all of the above mentioned in house computer programs as well as Word, Excel, AutoCad, Eagle Point, Flowmaster, Dams2, HEC1 and II, HECRAS, and Hydrocad.

Ms. Pennington is responsible for technical review of all work produced by Civil Tech. In this capacity, she reviews and approves all work produced by the company including AML, civil design, and dam safety projects.

H. Thomas Brown

Objective

Engineering Management

Work experience

2004-Present

City of Bridgeport

Bridgeport, WV

Director of Community and Public Works

- Managed City Departments: Engineering & GIS, Public Works, Public Utilities, Community Development and Parks & Recreation.
- Employee Evaluations: GIS Manager, Office Manager, Department Directors
- Prepared Annual Budget for Engineering/GIS Department
- Reviewed and Recommended Department Directors Budgets
- Managed Engineering Consultants and Contracts
- Prepared, Reviewed, Managed and Inspected all Construction Contracts

1991-2003

Harman Construction, Inc/West Virginia Paving, Inc Grafton/Charleston, WV

Senior Estimator (2001-2004)

- Prepare and sign construction cost estimates: Paving, Roadway Repair & New Construction, Excavation, Utility (water, sewer & storm drainage) construction & repair and Retaining wall.
- · Review and sign Contracts, Change orders, and Sub-Contracts
- Purchase Materials

Grafton Office Manager (1998-2001)

- Prepare, review, and sign: Cost proposals, Contracts, Change Orders, and Sub-Contracts
- Purchase Materials
- Schedule: Crews and Sub Contractors
- Close Branch Office

Senior/Chief Estimator (1991-1998)

- Prepare, review and recommend for signature: Cost proposals, Contracts, Change Orders, and Sub-Contracts
- Manage: Company Safety Program, Equipment Maintenance and repair, and
- Schedule: Crews and Equipment

1987-1991

Advanced Surveys, Inc

Prince Fredrick, MD

Project Engineer

- Prepare, review and recommend for signature: Engineering Proposals and Contracts
- Manage: Engineer, Technicians, inspectors and CAD system
- Schedule: Project designs, Project Inspections, and Sub-Consultants
- Prepare plans, specifications and contract documents: Commercial and Residential developments, Roadway and Intersection modifications and improvements, utility improvements and drainage improvements; including all studies and calculations required for excavation, grading, water, sewer, storm drain, storm water management, paving, side walk, curb and sediment control plans

1986-1987

Trible Construction, Inc..

Manassas, VA

Estimator

- Prepare, review and recommend for signature: Cost proposals, Contracts, Change Orders, and Sub-Contracts: Utility, Grading and Site Construction
- · Purchase Materials
- Market Company

1986-1986

The Driggs Corporation.

Capitol Heights, MD

Estimator

 Prepare, review and recommend for signature: Cost proposals for excavation and utility projects

1985-1986

Marvaco, Inc..

Capitol Heights, MD

Senior/Chief Estimator

 Prepare, review and recommend for signature: Cost proposals for excavation and utility projects

1984-1985

CMX Industrial Ceramics..

Bridgeport, WV

Manager

• Manage: Coal preparation plant rebuild shop

1983-1984

Hopke Company, Inc...

Alexandria, VA

Estimator

Prepare, review and recommend for signature: Cost proposals for utility projects

1981-1983

Soil Conservation Service

Morgantown, WV

Technician

Economic and hydraulic study preparation

1972-1981

Various

• Construction, Retail and Church Service

Education

December 1982

West Virginia University

Morgantown, WV

Civil EngineeringBSCE

Accreditations

West Virginia Professional Engineer License

West Virginia Professional Surveyor License

Professional memberships

American Society of Civil Engineers

North Central West Virginia Highway Engineers

RESUME OF CHARLES D. ARTHUR, Jr. SENIOR DESIGNER 10 - 18 - 11

EDUCATION:

June 1990

June 2000 Benjamin Franklin Career and Technical Education Center Dunbar, WV

Computer-aided Drafting/1080 hours

Honor roll in computer drafting, experience with MicroStation 95/SE, AutoCAD

2000, Windows 98 SE, 3D drawings, mechanical/architecture drawings,

isometric/oblique drawings and orthographic projections

June 1997 Benjamin Franklin Career and Technical Education Center Dunbar, WV

Welding/1,320 hours

Honors included a second place finish in the State Welding Competition, Elkins, WV, April 1997 sponsored by the Vocational Industrial Clubs of America,

Certificate of Recognition and experience with SMAW, GMAW, GTAW and TB

Dunbar, WV

Dec 1993 Richmond Technical Center Richmond, VA

Welding/72 hours

Dunbar High School

Honor roll in welding, experience with SMAW, GMAW, GTAW and TB

Diploma

EMPLOYMENT HISTORY

June 2000 to Civil Tech Engineering, Inc. Hurricane, WV

Present Senior Designer

Responsible for preparation of design drawings using Autocad 2000 and 2004, design modeling using Eagle Point 99 software, survey party chief, and

evaluation of mine maps and subsidence.

July 1999 to Custom Upholstery St. Albans, WV

June 2000 Helper/Deliverer Part Time

Experience keeping track of shop inventory and related sales, tearing down

furniture to be upholstered and transporting furniture

Aug 1997 to American Commercial Barge Line Jeffersonville, IN June 1999 Deck Hand

Experience rigging barges together, making locks, chipping, grinding, painting,

working in close quarters and maintaining tug boats/chemical barges

Jan 1995 to Pizza Hut Inc. South Charleston, WV

Aug 1997 and Shift Manager

RESUME OF CHARLES D. ARTHUR, Jr. Continued

July 1989 to Experience updating customer data, completing close of daily receipts, insuring that paperwork balances, operating computerized cash register and possessing

exemplary customer and employee relations

June 1993 to First Choice Equipment

Ashland, VA

Dec 1994

Mechanic

Experience maintaining tractor-trailers, various welding jobs, paint preparation and painting

PERTINENT EXPERIENCE:

Since joining Civil Tech in 2000, Mr. Arthur has been responsible for preparation of design drawings using Autocad for a variety of civil engineering, AML, mine subsidence claims, hotel site development, and dam modification projects. A partial list of projects including recent AML experience follows:

- ➤ Thomas (Sunrise Sanitation) Mine Drainage Project (DEP14171).
- > Thomas Sunrise Sanitation Mine Blowout (Emergency Project).
- > Prospect Valley Highwall #4 (DEP 14433).
- Winifrede (McFann) Portals (DEP 14479).
- ➤ Pines County Club (Ponds) Subsidence (DEP14633).
- Douglas Water Line Extension (DEP14951).
- Cambria Portals & Drainage Design (DEP 14845).
- Birds Creek Portals (DEP 15065).
- Nellis (Smith) Drainage (DEP15002).
- Zebb's Creek Highwall #2 (DEP14991).
- ► Hawkinberry Hollow Portals and Drainage (DEP 15220).
- Fairfield Inn and Suites, Weirton, WV
- ➤ Holiday Inn Express, Mineral Wells, WV
- Thomas Sunrise Sanitation Mine Drain
- Old Pond 11 Dam Rehabilitation
- Anawalt Flood Damage Repair
- > Teter Creek Dam Modification
- Wells Lock and Dam Repair
- Wilson Big Hollow Dam
- Winterplace Dam Modification 1 and 2.
- Cedar Lakes Dam No. 2 Flood Damage Repair
- Bailey and Lemley Dam Modifications
- Deegan and Hinkle Dam Modifications
- ➤ Thomas Storm Water Improvements
- > Thomas Sewer/Storm Water Segregation Project
- ➤ Amish Exchange
- Mine Subsidence and Insurance Investigations
- Landslide corrections
- Geotechnical Investigations

Mr. Arthur also serves as survey crew chief for property and topographic mapping projects for Civil Tech Engineering. During his employment he has also provided construction inspection and testing services for civil and dam modification projects and has inspected subsurface investigation projects for geotechnical projects.

Mr. Arthur is also certified by the State of West Virginia as a pre-blast inspector.

RESUME OF H. THOMAS DIBACCO

ENVIRONMENTAL ENGINEER

EDUCATION:

B.S. Environmental Engineering-2000-Kennedy Western University. Electronic Systems-DeVRY Institute of Technology Fairmont State College-1961-1963

CERTIFICATION/REGISTRATION:

Class 1 Public Water Supply Operator Supervisory Development Program Radiation Safety FCC General License Visual Emissions EPA Method 9

EMPLOYMENT HISTORY:

Virginia Power Environmental Compliance Coordinator Mt. Storm Power Station, North Branch Power Station 1966 to June 2000.

Civil Tech Engineering, Inc.
Project Manager July 2000 to present.

PROFESSIONAL EXPERIENCE:

Air pollution permits PSD Title 5
Water pollution control NPDES
Hazardous waste management
Lake management
Dam safety inspections
Alternate energy source development
Consultant wind energy development
Advisor for Dominion Energy
Advisor wind energy program James Madison University
Representative for Springhouse Energy Systems
Biological studies with Ohio State University

Engineering and development of ash storage facilities and haul roads

Environmental awareness training
Supervised activities of GAI Engineering
Ground water monitoring
Environmental audits.
Wastewater treatment (1500gpt to150,000gpd)
Storm water sampling
Spill prevention control and countermeasures
Solid waste management
Environmental inspections with WV Office of Air Quality, EPA, WVDEP.

PERTINENT EXPERIENCE: Mr. DiBacco has worked extensively with water and wastewater treatment systems at Mt. Storm Power Station, the North Branch Power Station, and the City of Thomas. As Environmental Compliance Coordinator at both the Mt. Storm Power Station and the North Branch Power Station, Mr. DiBacco has considerable experience in all areas of Environmental Regulations. He is also experienced in dam safety requirements. Mr. DiBacco was Project Manager for the Thomas Dam Modifications Project and is currently working on the Teter Creek Dam Modification Project. He has worked as an advisor/consultant for Dominion Energy, Springhouse Energy Systems, James Madison University and Ohio State University. During his employment with Virginia Power he was involved with construction of haul roads and ash storage facilities and alternate energy development.

RESUME OF ROBERT R. KESSLER GEOLOGIST 11 - 11 - 10

EDUCATION:

B.S. - Geology - 1965 - Ohio University
Post Graduate Work - 1965 to 1966 - Geology - Ohio University
B.S. - Mathematics - 1980 - University of Charleston

CERTIFICATIONS:

Certified Aggregate Inspector - WVDOH Certified Concrete Inspector - WVDOH

Certificate of Completion - Wetland Training - WVDOH

Certificate of Completion - Techniques for Pavement Rehabilitation - WVDOH

Certificate of Completion - Aerial Photo Interpretation - WVDOH

Certificate of Completion - Alkali Silica Reactivity in Concrete - FHWA

EMPLOYMENT HISTORY:

Geologist - Civil Tech Engineering, Inc. 1996 – present

Responsible for all geologic studies/investigations.

Typical projects include mining subsidence investigations, Teter Creek Dam, Thomas Dam, Old Pond 11 Dam, and

Seneca Dam.

Geologist

Group Leader

Aggregate Group, West Virginia Division of Highways

August 1998 to Present, Materials Control Division

Division Reorganization

Geologist -Testing Group Leader All Materials Testing Sections & Roadway Analysis

West Virginia Division of Highways

April 1992 to August 1998, Materials Control Division

Division Reorganization

Geologist
Technical Advisor

West Virginia Department of Transportation

January 1986 to April 1992, Materials Control Division

Division Reorganization

Geologist
Assistant Director

Aggregate Section, West Virginia Department of Highways

May 1984 to January 1986, Materials Control Division

RESUME OF ROBERT KESSLER CONTINUED

Geologist - Aggregate Section, West Virginia State Road Commission

Section Leader May 1969 to May 1984, Materials Control Division

Geologist - Aggregate Section, West Virginia State Road Commission

July 1966 to May 1969, Materials Control Division

PERTINENT EXPERIENCE

Mr. Kessler has performed geologic study on eleven mine subsidence claims investigated by Civil Tech for BRIM since 1996. Geologic investigation has included review of available mining maps and the county geologic reports providing important information concerning mining history and geologic formations and mine subsidence potential.

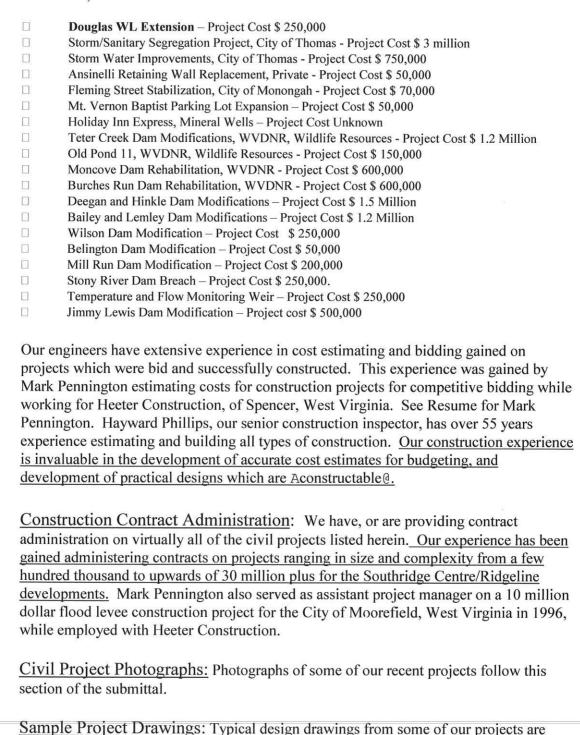
In addition to his duties reviewing mine subsidence claims, Mr. Kessler has also been responsible for the geologic study and investigation for over 40 dam rehabilitation projects in West Virginia.

Mr. Kessler has an intimate knowledge of geologic formations in the state of West Virginia and has recently authored and published a book on the geology of the Kanawha Valley.

SECTION B.2 - **CIVIL DESIGN**

	Design: Our principals and key personnel have been responsible for developing civil						
24	design drawings including site grading plans, highway access, storm water and mine drain						
	piping and controls, highwall and portal reclamation, storm water rail road crossings, erosion control, sanitary sewer collection and treatment, lift stations, retaining walls, parking layout, sidewalks, handicap access, utilities, permits, specifications, and bid						
	documents for various projects including:						
	☐ Thomas Sunrise Sanitation Mine Drain						
	☐ Thomas Sunrise Sanitation Mine Blowout						
	□ Prospect Valley Highwall #4						
	☐ Winifrede (McFann) Portals						
	☐ Pines Country Club (Ponds) Subsidence.						
	□ Douglas WL Extension						
	☐ Cambria Portals & Drainage						
	☐ Zebb's Creek Highwall #2						
	☐ Bird's Creek Portals Design						
	Nellis (Smith) Drainage						
	Hawkinberry Hollow Portals Design						
	48 Dam Rehabilitation Projects in WV and NC						
	Storm/Sanitary Segregation, City of Thomas, WV						
	Storm Water Improvements, Thomas, WV						
	First Church of God, Charleston, WV						
	Mt. Vernon Baptist Parking Lot Expansion						
	☐ Holiday Inn Express, Mineral Wells, WV						
	☐ Fairfield Inn & Suites, Weirton, WV						
	☐ Various large residential developments						
	□ Robert C. Byrd Federal Court House Sidewalks, Utilities, and Drainage						
	Haddad Riverfront Park, Charleston, WV						
	Southridge Centre 100 acre Commercial Development						
	Ridgeline 50 acre Commercial Development						
	Commercial developments including: Amish Exchange, Wendy=s, Texas Steakhouse, Kenny						
	Rogers, etc.						
	☐ Various Hazardous Waste and Sanitary Landfills						
	☐ Various Abandoned Mine Land Projects						
	☐ Various Landslide Stabilization Projects throughout West Virginia						
	☐ Means and Methods, Pipe Crossings – CSX Railroad, Rt. 10, Rita to Midway Plaza Highway						
	Project						
	Cost Estimating: Cost estimates are routinely prepared for our civil design projects.						
	Most recent experience in preparing cost estimates includes:						
	Thomas Sunrise Sanitation Mine Drain – Project Cost \$ 325,000						
	Thomas Sunrise Sanitation Mine Blowout – Project Cost \$ 325,000 Thomas Sunrise Sanitation Mine Blowout – Project Cost \$ 250,000						
	Pines Country Club (Ponds) Subsidence – Project Cost \$ 2.6 million						
	Winifrede (McFann) Portals – Project Cost \$ 450,000.						
	Cambria Portals - Project Cost \$ 682,000						
	- Cambria Fortais - Project Cost \$ 082,000						

enclosed to illustrate our capabilities.



CIVIL TECH ENGINEERING INC. "Attention to Detail"



FIRST CHURCH OF GOD - CHARLESTON, WV PROJECT COST UNKNOWN - COMPLETE 2001

- □ TOPOGRAPHIC MAPPING
- SUBSURFACE INVESTIGATION
- □ STORM WATER CONTROLS
- □ PERMITTING
- UTILITY LOCATION & DESIGN
- WASTE WATER TREATMENT RECIRCULATING SAND FILTER
- □ PAVEMENT AND WALKS
- □ PLANS AND SPECIFICATIONS



Erosion Repair - Rip Rap Armored Ditch



New Storm Drains and Catch Basins

STORM WATER IMPROVEMENTS – THOMAS, WV

- PROJECT COST \$ 750,000 − COMPLETE 2007

 TOPOGRAPHIC MAPPING
- □ STORM WATER CONTROLS & EROSION REPAIR
- PERMITTING
- □ PLANS AND SPECIFICATIONS
- BIDDING
- □ CONSTRUCTION CONTRACT ADMINISTRATION

CIVIL TECH ENGINEERING INC. "Attention to Detail"



<u>HOLIDAY INN EXPRESS – MINERAL WELLS, WV</u> <u>PROJECT COST UNKNOWN – COMPLETE 2007</u>

- □ TOPOGRAPHIC MAPPING
- □ STORM WATER CONTROLS
- □ PERMITTING
- ☐ UTILITY LOCATION & DESIGN
- WASTE WATER LIFT GRINDER STATION DESIGN
- □ PAVEMENT AND WALKS
- □ PLANS AND SPECIFICATIONS





MT. VERNON BAPTIST PARKING LOT EXPANSION - HURRICANE, WV

PROJECT COST \$ 50,000 - COMPLETE 2007

- □ TOPOGRAPHIC MAPPING
- □ STORM WATER CONTROLS
- PERMITTING
- □ PAVEMENT AND WALKS
- □ PLANS AND SPECIFICATIONS

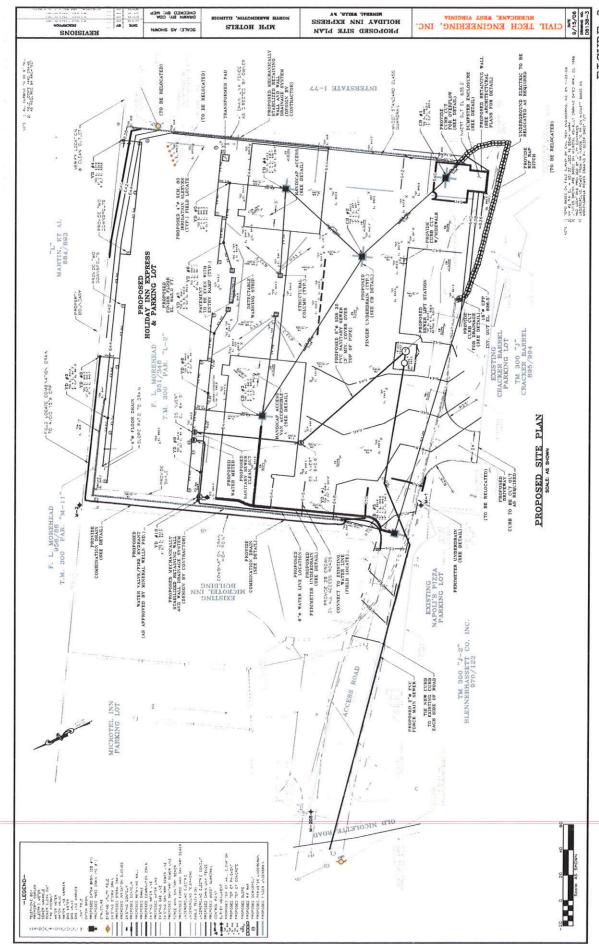
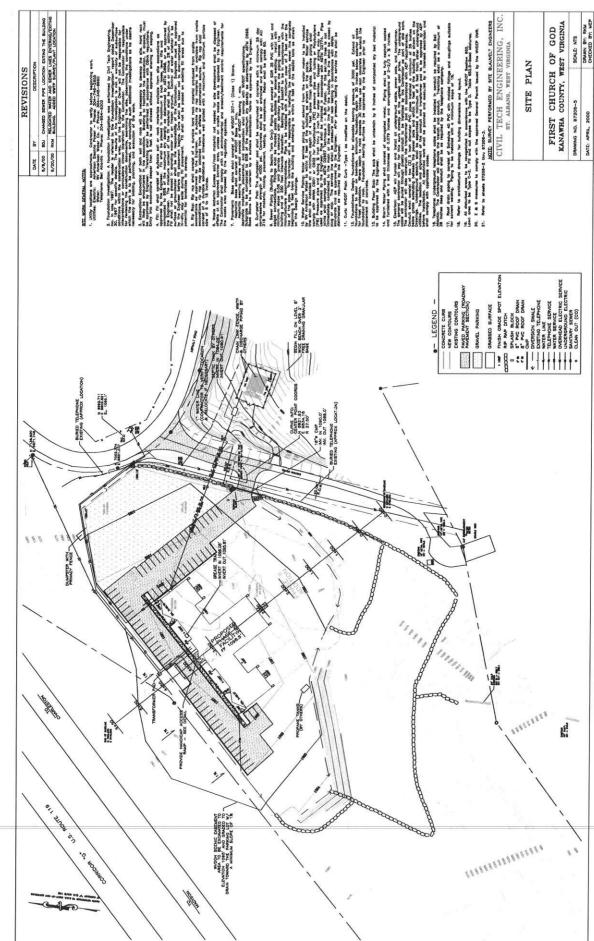


FIGURE 4

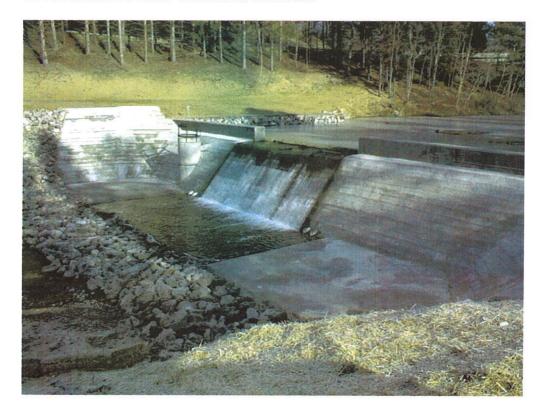


SECTION B.3 - DAM SAFETY EXPERIENCE

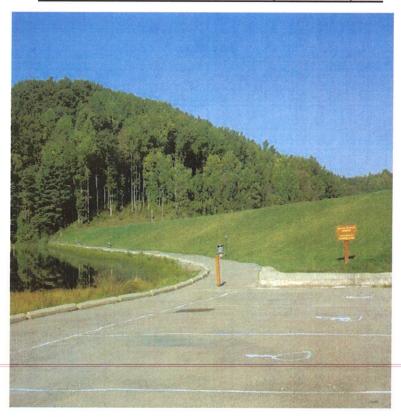
- Civil Tech Experience: Civil Tech=s dam experience over the last 15 years has included 37 Dam Modification Projects ranging in cost from \$50,000 to \$1,500,000. All dam projects involve civil, environmental, geotechnical, surveying/mapping, construction monitoring, and contract administration. We believe this experience makes our firm uniquely qualified for AML Design Work. Civil Tech Dam Projects are listed below.
 - 1. Rollins Dam, Evans, WV
 - 2. Seneca Dam, Pocahontas Co., WV
 - 3 Teter Creek Dam, Barbour Co. WV
 - 4. Wells Lock and Dam, Elizabeth, WV
 - 5. Handley Dam, Handley WMA, Pocahontas Co., WV
 - 6. Anawalt Flood Damage Repair, Anawalt, WV
 - 7. Old Pond 11, McClintic WMA, Mason Co., WV
 - 8. Burches Run Breach Plan, Moundsville, WV
 - 9. Edwards Run Dam, Cacapon Bridge, WV
 - 10. Culloden PSD Dam, Culloden, WV
 - 11. Belington Water Supply Dam, Belington, WV
 - 12. Cedar Lakes Dam No.s 1 and 2, Ripley, WV
 - 13. Joyce Lake Dam, Clarksburg, WV
 - 14. Tailings Pond No. 2, Bessemer City, NC
 - 15. City of Thomas Dam, Thomas, WV
 - 16. Fly Ash Dam, FMC Peroxide Plant, So. Charleston, WV
 - 17. Dickenson Dam, FMC Sportsman=s Club, Hurricane, WV
 - 18. Brood Pond Dam, FMC Sportsman=s Club, Hurricane, WV
 - 19. Winterplace Dam Modification, Winterplace Ski Resort
 - 20. Wilson Big Hollow Dam, Hampshire Co. WV
 - 21. Burches Run Dam, Marshall Co., WV
 - 22. Moncove State Park Dam, Monroe Co., WV
 - 23. Winterplace Dam Reservoir Enlargement, Winterplace Ski Resort
 - 24. Bailey Dam Rehab, Monongalia Co. WV
 - 25. Lemley Dam Rehab, Monongalia Co. WV
 - 26. Deegan Dam Modification, Bridgeport, WV
 - 27. Hinkle Dam Modification, Bridgeport, WV
 - 28. Stony River Dam Breach, Grant Co., WV
 - 29. Mill Run Dam Modification, Mt. Top PSD, Grant Co., WV
 - 30. Mt. Storm Lake Dam Flip Bucket Stabilization, Dominion Generation
 - 31. Temperature and Flow Measurement Weir Design, Dominion Generation
 - 32. White Dam Modification, Private Owner, Sissonville, West Virginia
 - 33. Berwind Dam Modification, Berwind WMA
 - 34. Long Branch Dam Modification, Pipestem State Park

Last Re	evised Oc	35. 36. 37.	Mt. Storm Gate Modification, Mt. Storm Power Station Jimmy Lewis Drain Pipe Repairs, Pinnacle Rock State Park Reservoir and Park Dams, Cacapon State Park				
		Certificates of approval have been applied for and approved by the WVDEI projects.					
			Our projects include; new dams, rehabilitation, flood damage repair, and emergency repair.				
		Period	ic Safety Inspections are routinely performed on over 60 dams.				
	<u>Past Experience</u> : Prior to forming Civil Tech in 1996, our principals were responsible for:						
			n Modification Projects ranging in cost from \$ 300,000 to \$ 1,300,000. dams are listed below:				
			Jimmy Lewis Dam, Mercer Co., WV Plum Orchard Dam, Fayette Co., WV Boley Dam, Babcock State Park Anawalt Dam, Anawalt, WV Warden Lake Dam, Hardy Co., WV Burches Run Dam, Moundsville, WV Castlemans Run Dam, Wheeling, WV No. 1 Impoundment, Union Carbide No. 2 Impoundment, Union Carbide No. 3, Impoundment, Union Carbide Mill Creek Dam, Columbia Gas				
		Certificates of Approval were obtained for all projects.					
		Numer	ous Safety Inspections were also performed.				
	Roller	Compac	Civil Tech specializes in the use of innovative techniques including the use of sted Concrete in dam rehabilitation. We have successfully completed seven sion projects using RCC in West Virginia.				
	Breach Analysis and Risk Assessment: Civil Tech has successfully used breach analysis and risk assessment to reduce the hazard classification of many of our dam projects. This analysis resulted in a reduction in the design storm and substantial savings for our clients.						

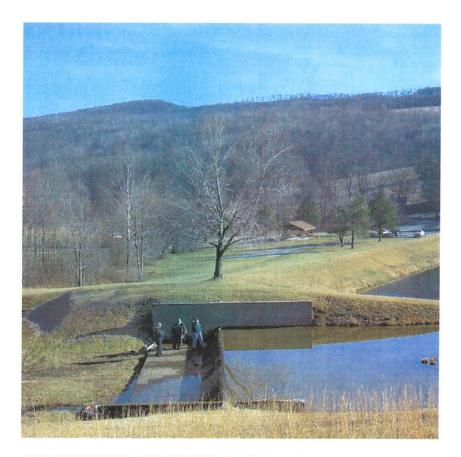
Facility	Improvements:	Our dam	rehabilitation	projects	have	resulted	in	facility
improver	ments including:							
□ A	ccess For Fishermen.							
	oat Launching Ramps.							
	ccess Roads.							
	arking Facilities.							
\Box W	alkways							
\Box H	andicap Access.							
\Box To	oilet facilities.							
effort to	nance of Facility: complete our project and planned to fit th	ts with mi				0.00		
	Photographs: Repaid Repair Rep			nd sampl	e draw	ings illus	trat	ing our



THOMAS DAM MODIFICATION, THOMAS, WV



TETER CREEK DAM MODIFICATION, BARBOUR CO., WV



BELINGTON DAM MODIFICATION, BELINGTON, WV



WILSON DAM MODIFICATION, HAMPSHIRE CO., WV

CIVIL TECH ENGINEERING INC. "Attention to Detail"



OLD ANAWALT DAM FLOOD DAMAGE REPAIR, MCDOWELL CO., WV



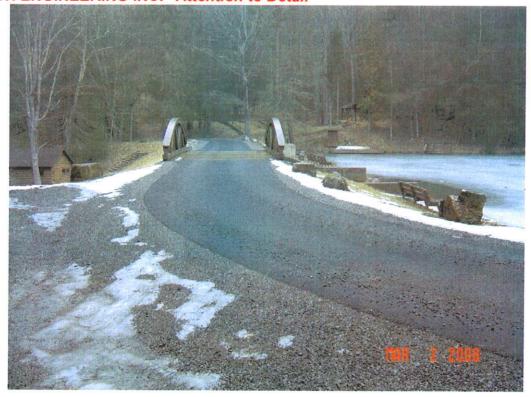
BAILEY DAM MODIFICATION, MONONGALIA CO., WV



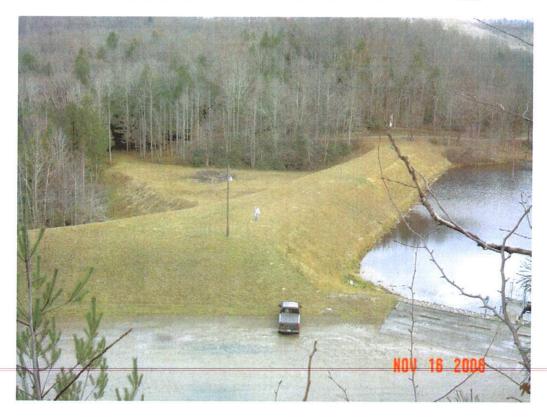
LEMLEY DAM MODIFICATION, MONONGALIA CO., WV



MONCOVE DAM MODIFICATION, MONROE CO., WV



SENECA DAM MODIFICATION, POCAHONTAS CO., WV



PLUM ORCHARD DAM MODIFICATION, FAYETTE CO., WV



JIMMY LEWIS DAM MODIFICATION, MERCER CO., WV



WARDEN LAKE DAM MODIFICATION, HARDY CO., WV

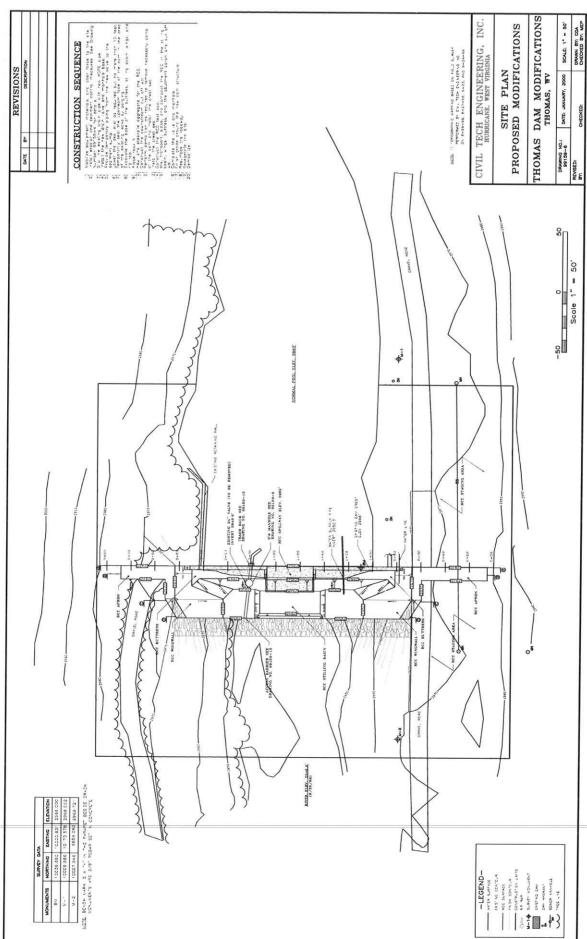


FIGURE 6

FIGURE 7

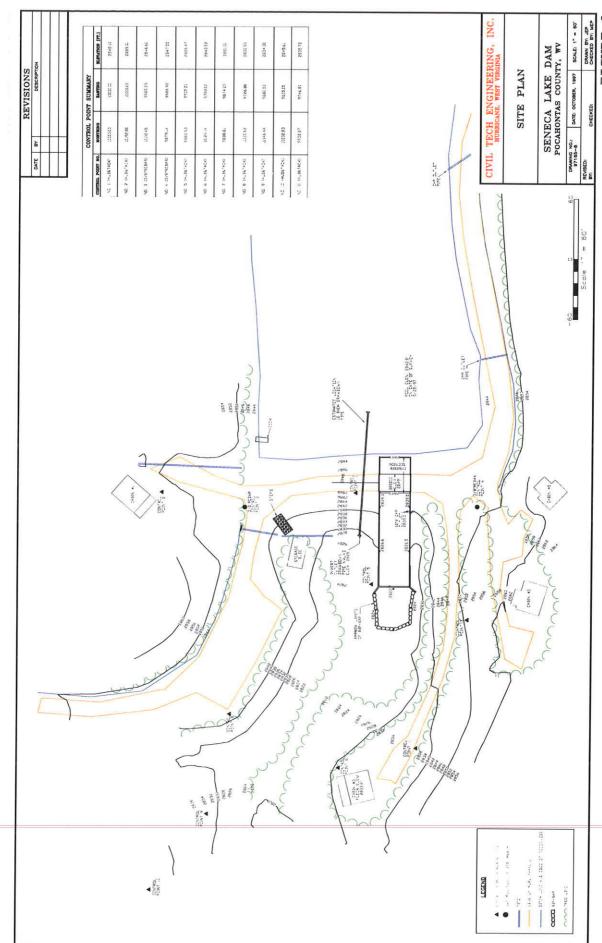


FIGURE 8

<u>SECTION B.4</u> - <u>GEOTECHNICAL/SURVEYING</u>

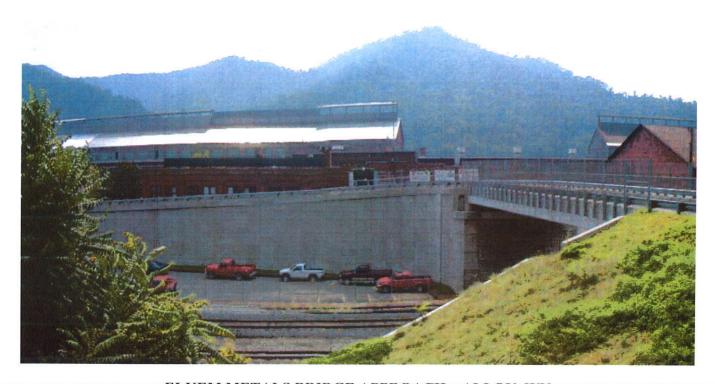
<u>Civil Tech Experience</u> : Geotechnical engineering is a small, but important part of ou business because so much of our work related to dams depends on geotechnical sampling testing, and analysis. Our principals have a very strong background in this discipline from our history at Triad Engineering. Civil Tech has provided geotechnical services on a variety of projects including; mechanically stabilized walls, water and asphalt storage tanks, commercial buildings, churches, industrial equipment and buildings, etc. Typical projects for which Civil Tech has provided geotechnical engineering services include:	
Steel of West Virginia Expansion, Huntington, WV Service Wire Building Damage Evaluation, Culloden, WV First Church of God, Charleston, WV Various Water Storage Tanks, WV American Water Company Asphalt Storage Tanks, MTI, Gallipolis, Ohio Bridge Replacement, Elkem Metals, Alloy, WV Zim Bagging, Wayne County, WV Wurtland Marine Harbor, Wurtland, KY Steel of West Virginia Warehouse - Greenbottom, WV HADCO Shell Building - Huntington, WV Service Wire Warehouse Expansion, Culloden and Huntington, WV Countless Landslides Throughout WV Service Wire Warehouse Expansion, Huntington and Culloden, WV Waste Site Design, Means and Methods RR Crossings, Rt. 10 Rita to Midway Plaza Highway Project, Man, WV	
<u>Past Experience:</u> Our principals were directly responsible for large geotechnical projects including:	
 □ Southridge Centre, Charleston, WV □ Ridgeline Development, Charleston, WV □ Cabell East High School, Huntington, WV □ Beckley Federal Prison, Beckley, WV □ Rhodimet Plant, Rhone Poulenc, Institute, WV □ Countless Highway Projects for the WVDOT □ Hazardous and Sanitary Landfills throughout WV, KY, and Ohio □ Over 120 Abandoned Mine Land Projects for the WVDEP 	
<u>Surveying and Mapping:</u> Surveying and mapping services are performed by our inhouse crew using electronic instruments with onboard data collectors, and computer software to reduce data and develop drawings. The work is performed under the direction	
of one of our Professional Surveyors. Since forming Civil Tech, we have performed field surveying necessary to develop topographic mapping and locate existing site features for most of our ongoing and past engineering projects. Clients have included:	

	Steel of West Virginia
	FMC Peroxide
	Simpson - Litman Builders
	WVDNR - Wildlife Section
	Joyce Properties
	City of Thomas
	City of Belington
	City of Culloden
	WVDNR - Parks & Recreation
	Winterplace Ski Resort
	Mt. Top PSD
	NewPage Corporation
	Dominion Generation
	WV American Water
П	Private Concerns



ASPHALT STORAGE TANK FARM - MIDDLEPORT TERMINALS INC.

- SUBSURFACE INVESTIGATION
- ☐ GEOTECHNICAL ANALYSIS
- ☐ FOUNDATION DESIGN
- □ PLANS AND SPECIFICATIONS
- □ CONSTRUCTION CONSULTATION



ELKEM METALS BRIDGE APPROACH – ALLOY, WV

- □ SUBSURFACE INVESTIGATION
- ☐ GEOTECHNICAL ANALYSIS
- ☐ FOUNDATION RECOMMENDATIONNS
- □ CONSTRUCTION CONSULTATION



FLEMING STREET PROJECT - MONONGAH, WV

- □ TOPOGRAPHIC MAPPING
- □ SUBSURFACE INVESTIGATION
- ☐ EROSION AND SLIDE STABILIZATION
- □ PLANS AND SPECIFICATIONS
- □ BIDDING
- □ CONSTRUCTION CONTRACT ADMINISTRATION



SARVER LANDSLIDE PROJECT - HURRICANE, WV

- TOPOGRAPHIC MAPPING
- □ SUBSURFACE INVESTIGATION
- ☐ GEOTECHNICAL ANALYSIS
- □ DRILLED PILE WALL DESIGN AND GRADING OPTION
- □ PLANS AND SPECIFICATIONS
- □ BIDDING