

RFQ COPY

TYPE NAME/ADDRESS HERE

Triad Engineering, Inc.

10541 Teays Valley Road

DEVELOPMENT

Scott Depot, WV 25560

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

Solicitation

NUMBER DEP16454 PAGE

ADDRESS CORRESPONDENCE TO ATTENTION OF:

FRANK WHITTAKER

304-558-2316

ENVIRONMENTAL PROTECTION DEPARTMENT OF

OFFICE OF AML&R

601 57TH STREET SE

CHARLESTON, WV

25304

304-926-0499

DATE PRINTED 12/11/2013 BID OPENING DATE 1 · 3 0 PM 01/16/2014 BID OPENING TIME CAT. QUANTITY ITEM NUMBER UNIT PRICE AMOUNT d001 JВ 906-29 GLEN ALUM COMPLEX DESIGN EXPRESSION OF INTEREST THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND donstruction monitoring services at the glen alum domplex project in mindo county, west virginia, HER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS. THIS IS THE END OF RFO DEP16454 ***** TOTAL: 01/16/14 11:07:44AM West Virginia Purchasing Division TELEPHONE 155.0721 ADDRESS CHANGES TO BE NOTED ABOVE 550592364

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

GLEN ALUM COMPLEX DESIGN DEP16454

January 16, 2014





Prepared For:

WV Department of Environmental Protection Office of AML&R 601 57th Street SE Charleston, WV 25304 Ph: 304.925.0499

Prepared By:

Triad Engineering Inc. 10541 Teays Valley Road Scott Depot, WV 25560 Ph: 304.755.0721 Fx: 304.755.1880





January 16, 2014

Purchasing Division 2019 Washington Street, East Post Office Box 50130 Charleston, West Virginia 25305-0130

Subject:

WVDEP Expression of Interest – DEP16454

Glen Alum Complex Design Project

Professional Engineering Design Services

Mingo County, West Virginia Triad Proposal No. 04-13-0590

Dear Evaluation Committee:

Triad Engineering, Inc., (TRIAD) is pleased to submit the attached "Consultant Qualification Questionnaire (CQQ)" and "Related Project Experience Matrix (RPEM)" in response to the Office of Abandoned Lands & Reclamation's Expression of Interest for professional engineering design services for the referenced project located in Mingo County. We understand "full-service" design services are to be performed and will include civil, structural, geological and hydrological services. The services required will result in the development of engineering drawings, contract specifications and other contract documents required for the letting of construction.

TRIAD has provided engineering and related services required for the successful completion of AML projects since the WVDEP gained primacy of the Program from the Office of Surface Mining. As of this date, TRIAD has completed over 400 AML projects. These projects have involved all problem types encountered on abandoned mine lands projects.

As always, TRIAD will commit the necessary resources to meet the needs of the project. TRIAD continues to maintain and invest in staff and equipment necessary to provide comprehensive services for the successful completion of this project. We firmly believe the in-house resources available provide the State with the most favorable terms from a technical and cost standpoint.

We highly value our working relationship with AML personnel, and will continue to strive for excellence in all we do. We look forward to the next phase of the evaluation.

Sincerely,

TRIAD ENGINEERING, INC.

David F. Meadows, PE, PS

Regional Manager

L. Lee McCoy, P.E.

Department Manager, Civil Engineering

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West Virginia Department of Environmental Protection, AML Consultant Qualification Questionnaire

AML & Related Project Experience Matrix

- I. INTRODUCTION
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- III. QUALIFICATIONS OF PERSONNEL
- IV. CORPORATE SPECIALIZED EXPERIENCE
- V. MANAGEMENT PLAN, LOCATION OF FACILITIES & WORK APPROACH
 RELATED SERVICES

PAST ABANDONED MINE LAND PROJECTS



W			TO: NVIRONMENT		ON Attachment "B"	
PROJECT NAME Glen Alum Complex Design		DATE (DAY, MONTH January 16, 2014	(,		FEIN 550592364	
10541		10541 Teays Vall	2. HOME OFFICE BUSINESS ADDRESS 10541 Teays Valley Road Scott, Depot, WV 25560 N/A		RMER FIRM NAME	
4. HOME OFFICE TELEPHONE 304.755.0721	5. ESTABL	ISHED (YEAR)	6. TYPE OWNERSHIP Corporation		6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) NO	
7. PRIMARY AML DESIGN OFFICE: 10541 Teays Valley Road, Scot	t Depot, W	V 25560 / (304) 7	755-0721 / Dave Mead	lows, PE, PS -	Regional Manager / 06	
8. NAMES OF PRINCIPAL OFFICER Thomas Ali, P.E CEO 412- John M. Meeks, RPG, LRS - COO	257-1325		8a. NAME, TITLE, &	TELEPHONE NUME	BER - OTHER PRINCIPALS	
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10. HAS THIS JOINT-VENTURE WO	RKED TOGET	HER BEFORE?	YES NO			

11. OUTS & KEY CONSULTANTS/SUB-CONSULT Questionnaire".	ANTS ANTICIPATED TO BE JED. Attach "AML	Consultant Qualification
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
N/A	N/A	Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
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		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No

Are your firm's personnel experienced in Abandone. ine Lands Remediation/Mine Reclamation Engineering. Description and Number of Projects: Triad has provided engineering and related services required for the successful completion of over 400 AML projects since the WVDEP gained primacy of the Program from the Office of Surface Mining. These projects have involved all problem types encountered on abandoned mine lands projects. NO Are your firm's personnel experienced in Soil Analysis? Description and Number of Projects: Thousands of projects involving soil analysis have been performed since our inception in 1975. Our geotechnical materials testing labs are certified by the WVDOT/ DOH. NO Are your firm's personnel experienced in hydrology and hydraulics? Description and Number of Projects: Triad has completed hundreds of projects in the areas of hydrology and hydraulics since our inception. Clients include the U.S. Army Corps of Engineers, WVDEP, and WVDNR. NO Does your firm produce its own Aerial Photography and Develop Contour Mapping? D. Description and Number of Projects: Triad typically subcontracts the aerial photography. However, Triad lays out the targets in the field and conducts the survey for establishment of horizontal and vertical control used to develop the final contour mapping. It is estimated that we have completed several hundred of these types of mapping projects since the inception of the firm in 1975. NO Are your firm's personnel experienced in domestic waterline design? (Include any experience in evaluation of aguifer degradation as a result of mining.) Description and Number of Projects: Our firm has completed a total of 10 waterline design projects including: Norton Harding Jimtown, Alkol Phase 1 and 2, 14 Mile, 10 Mile, 9 Mile, 6 Mile, Gatlin Coal Waterline Extension, Mason Phase 1 and 2, and Moorefield. Numerous Phase I and Phase II water feasibility studies have also been conducted. NO Are your firm's personnel experienced in Acid Mine Drainage Evaluation and Abatement Design? Description and Number of Projects: Our firm has completed over 11 AMD designs ranging from active to passive treatment. These projects include: Kittle Flats, Childs Highwall and Portals, Martin Creek, Steadman AMD, Wayne Shreve Portals, Pumpkintown, Kingsville, & Mable Waterline Feasibility Study, Left Fork of Little Sandy,

Tunnelton Mine Drainage, Brown Street Drainage, Blaser Highwall, Hawkins AMD, and Chief Logan State Park AMD.

data but keep to essentials)						
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE				
Meadows, David F., PE, PS	YEARS OF AML DESIGN EXPERIENCE:		YEARS OF DOMESTIC			
Regional Manager	5	EXPERIENCE:	WATERLINE DESIGN EXPERIENCE: 20			
	5	35+	EXPERIENCE: 20			
rief Explanation of Responsibilitie	s					
r. Meadows will serve as principal	in charge. Mr. Meadows bring	gs over 40 years of leadership	, design and project			
nanagement experience to Triad Engin	eering. Mr. Meadows joined ?	riad in 2013 to provide manag	ement to the southwest			
region which includes the southern W	Vest Virginia area and the Atl	nens, Ohio office. Prior to c	oming to Triad he served			
n a number of technical and leaders	hip positions at the US Army	Corps of Engineers, Huntington	n District. His			
expertise includes civil design, geo						
remediation and water resources engi	5	, , , , , , , , , , , , , , , , , , ,				
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EDUCATION (Degree, Year, Specializat	ion)	A STATE OF THE STA				
Bachelor of Science, Civil Engineeri	ng, West Virginia Institute	of Technology 1974				
Masters of Science, General Engineer						
Masters of Engineering, Geotechnical			rsity 1987			
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MEMBERSHIP IN PROFESSIONAL ORGANIZAT	IONS	REGISTRATION (Type, Year, St.	ate)			
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Land Surveyors		Registered Professional Surv				
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NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE					
Criniti, James R. "Bo"	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:				
	4	4	4				
Brief Explanation of Responsibilities: Mr. Criniti works under the supervision of a registered professional engineer in performing all facets of civil design and specification preparation including site development design, parking lot layouts, grading and drainage design and drainage studies. Other duties include permit application, AMD treatment design and retaining wall design.							
EDUCATION (Degree, Year, Specializat B.A./ 1995 / Chemistry B.S. / 2008 / Civil Engineering	ion)						
MEMBERSHIP IN PROFESSIONAL ORGANIZAT	IONS	REGISTRATION (Type, Year, Sta	ate)				
ASCE		E.I.T. / 2009 / WV					
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data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Lipscomb, Daniel H. Brief Explanation of Responsibilitie Mr. Lipscomb has formulated and impl for coal mining facilities. Mr. Lip programs, analysis of subsurface con	YEARS OF AML DESIGN EXPERIENCE: 0 s emented subsurface investigat scomb's responsibilities incl ditions and preparation of fi roposed site use.	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 11 ions on landfills, roadway/brided development and implements	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 idges, and structures				

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE				
Huffman, Jeffrey, T.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:		
	1	20	0		
Brief Explanation of Responsibilitie	es:				
Mr. Huffman brings over 22 years of	full-time design and project	management experience as well	as 2 years of teaching		
experience to Triad Engineering. Mr					
region. Prior to coming to Triad he					
n the mid-Atlantic area. His exper					
			dadde degreed in orvir		
engineering with a specialty in geot					
		s completed the course work for			
this field.	echnical engineering. He has				
this field. EDUCATION (Degree, Year, Specializat	echnical engineering. He has	s completed the course work for	r his Ph. D. also in		
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engineering with a specialty in geoth this field. EDUCATION (Degree, Year, Specializat Ph,D. Course Work Completed, Civil E Blacksburg, Virginia, Anticipated de M.S., Civil Engineering (Geotechnica Virginia. B.S., Civil Engineering, 1988, Virgi Cum Laude. MEMBERSHIP IN PROFESSIONAL ORGANIZAT American Society of Engineering Educ Society of American Military Engineer	cion) Engineering (Geotechnical), Vicegree award May 2015. Enl), 1990, Virginia Polytechnical and Polytechnic Institute An	rginia Polytechnic Institute c Institute and State Univers State University, Blacksburg	r his Ph. D. also in and State University, ity, Blacksburg, , Virginia, Graduated ate) neer, 2005 West Virgini		

Carolina

American Society of Civil Engineers - WV Section Treasurer Society of American Military Engineers - American Society of

Civil Engineers Student Chapter - Faculty Advisor

American Council of Engineering Companies.

Order of the Engineer.

Registered Professional Engineer, 2007 Ohio

Registered Professional Engineer, 2008 North

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

Equipment Listing

Drilling Equipment:

Track Mounted Rigs 1 - Davey DK 90

2 - CME 55

1 - CME 45 C

All Terrain Drill Rigs 3 - CME 550 C

Truck Mounted Rigs 2 - Mobile B53

Skid Mounted Rigs 1 - Diedrich D25

Transport Vehicles 4 - Peterbilt Tandem Axle Tiltbeds

1 - Mack Tractor & Lowboy Trailer

1 - International Tractor & Lowboy Trailer

1 - Military 5 Ton Water Truck1 - Military 2.5 Ton Water Truck15 - 4WD ¾ Ton Support Trucks

1 - Pontoon Boat

1 - Barge 1 - John Boat

Portable Drilling Equipment 1 - Motorized Cathead/Tripos Unit2 - Handheld Sampling Equipment

Miscellaneous equipment includes Dutch cone Penetrometer, Mobile Grout Pump (Chem-Grout), Steam Jenny (Whitco), Steam Jenny (Hotsy), 600 CFM Air Compressor (Sullair), various size utility trailers.

Protective Clothing & Equipment-Complying with EPA & OSHA Regulations Air Purifying Respirators & Supplied Air Respirators

Continued - page 2

Drilling Tools:

- Hollow Stem Augers (2 ¼ " I.D., 3 ¼" I.D., 4 ¼" I.D., 6 ¼" I.D.)
- Continuous Flight Augers
- NQ Core Equipment
- AW Core Equipment
- Pressure Testing Equipment
- Water Pumps, Trucks and Tanks
- Shelby-Tube Samplers (2", 3" and 5" Diameter)
- Split-Spoon Samplers (2" and 3" Diameter)
- CME Continuous 5.0' Length Samplers
- Longyear Casing Advancer (HQ)
- Downhole Hammer

Laboratory Equipment:

- Triaxial Compression Machine
- Manual Proctor Devices (standard and modified)
- Automatic Proctor Hammer
- Turbidimeter
- Hydrometer
- pH Tester (soil & water)
- Electronic Scales
- Unconfined Compression Machine
- Atterberg Limits Devices
- California Bearing Ratio Devices
- Electrical Resistivity Devices
- Specific Gravity Devices (soils & aggregates)
- 2000 Degree Fahrenheit Oven
- Permeability Cells & Panels
- Consolidometers

Continued - page 3

- Electronic Manometers
- Concrete Compressive Strength Equipment
- Aggregate Shakers
- Sieve Shakers
- Sample Splitters
- Unit Weight Buckets
- Slake Durability Machine
- Gradation Sieves
- L.A. Abrasion Test Equipment
- Soiltest Loading Devices
- Sodium Sulfate Soundness Test Equipment
- Asphalt Test Equipment
- Relative Density Determination Device

Field Testing Equipment:

Soil

- Nuclear Moisture/Density Gauges
- Sand Cone Equipment
- Support Compaction Testing Equipment
- Digitilt Slope Indicator
- Pocket Penetrometers
- Hand Augers
- Static Cone Penetrometers

Continued – page 4

Concrete

- Air Meters (pressure & volumetric)
- Slump Cones & Accessories
- Windsor Probes
- Rebound Hammers
- Concrete Core Drills & Accessories
- Concrete Slab Profiler

Water

- Pressure Transducer / Data Logger & Associated Software
- pH Meters
- Turbidity Meters
- Iron Test Kits
- Dissolved Oxygen Meter
- Water Test Kits

Structural Steel, Bolt, and Paint

- Torque Wrenches
- Magnetice Gauges
- Tooke Gauges
- Wet File Gauges
- Sling Psychrometers
- Dye Test Kits

Continued - page 5

Environmental Testing

- OVA Meters (Trace Gas Analyzer by Flame Ionization)
- HNU Meters (Trace Gas Analyzer by Photoionization)
- Air-Stripping Unit for Water Treatment
- LEL/Oxygen Meter
- Draeger Pump and Assorted Tubes
- pH/ Conductivity/ Temperature Meters
- Hammer Drill and Associated Sampling Equipment

Field Laboratory Trailer

Equipped as Required for Specific Projects

Surveying and Mapping Equipment

- Total Station Survey Instruments (Topcon, Lietz, Hewlett Packard, various models, 25 total)
- Wild T2 Precise Theodolite
- 2 Trimble 4000ssi Total Station GPS Recievers L1/ L2 dual frequency capability
 OTF (On The Fly) Initialization
 1.0MB static memory
- 2 Compact L1/ L2 frequency GPS Antenna w/ detachable geodetic groundplane
- 1 Pacific Crest 35w Data Transmitter
- 1 Pacific Crest 2w Data Reciever
- Trimble GPSurvey Software (v2.30b)
- Trimble TRIMNET Software (v92.11c)
- Dell Dimension XPS-D333 Computer w/ Dell Trinitron Monitor

Continued - page 6

- CTX 300 MHz Laptop Computer
- Toshiba 200 MHz Laptop Computer
- Thodolites (Dietzgen, 2 total)
- Engineer's Transits
- Data Collectors (SMJ Construction V, HP 48 GX, Topcon, Leitz, various models, 20 total)
- Wild N3 Precise Level
- Automatic Levels (Lietz, Pentax, Wild, various models, 25 totall)
- Planimeters (4)
- Various Lengths of Engineer Chains, Precision Leveling Rods
- 12 ft. Boat with Trolling Motor
- Pontoon Boat

Computer Equipment:

Software

- MicroStation J
- MicroStation SE
- MicroStation V8 (2) Network Administered
- Bentley View (41) Network Administered
- InRoads v8.3 Network Administered
 - o InRoads Bridge
 - o InRoads Site
 - InRoads Storm & Sanitary
 - o InRoads Survey

Continued - page 7

- AutoCAD Civil 3D 2013 (7) Network Administered
- Site SelectCAD Package
- SurvCADD 2000 (2)
- Corel WordPerfect 2000 (21)
- Corel WordPerfect 2002 (20)
- Microsoft Office 97 Professional (21)
- Microsoft Office 2000 Premium (3)
- Microsoft Office XP Professional (8)
- Microsoft Office Professional 2003 (9)
- Microsoft Windows 98SE (21)
- Microsoft Windows 2000 Professional (3)
- Microsoft Windows XP Professional (17)
- Adobe Photoshop 7 (2)
- Adobe PageMaker 7 (2)
- Adobe Acrobat 6 Pro (21)
- Adobe PageMill (2)
- Adobe Illustrator 7 (2)
- Adobe InDesign 2 (2)
- Adobe GoLive 6 (2)
- Macromedia Studio MX (2)
- PCSTABL6/STED Slope Stability
- UTEXAS2 Slope Stability
- · COGOPC+ Surveying and Mapping

Continued - page 8

- CONTOUR+ Surveying and Mapping
- HEC1 Flood Hydrograph Package
- HEC2 Water Surface Profiles
- DAMS2 SCS Structure Site Analysis
- PONDPACK Urban Hydrology and Detention Pond Design
- GEOPRO Geotechnical Engineering Software
- LPILE Plus 4.0 for Windows Pile Design
- SHAFT 4.0 for Windows Caisson Design
- HELPMODEL Hydrologic Evaluation of Landfill Performance
- FLOWMASTER 7.0 Network Administered Pipe and Ditch Sizing
- WaterCAD for AutoCAD 6.5 Network Administered
- StormCAD for Windows
- CULVERTMASTER Culvert Design and Analysis
- EXXON I Pavement and Subbase Thickness Design
- Trimble GPSurvey Software (v2.30b)
- Trimble TRIMNET Software (v92.11c)
- Q & A Database
- Peachtree Accounting (time & billing)
- Protrax Axium accounting
- Laboratory Test Data Reduction Programs
- GeoSystems Geotech Engineering Materials Testing
- gINT 6 (7)
- Lotus 123 Spreadsheet

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- HWY Asphalt Pavement Thickness for Streets and Overlays
- HWLOAD Asphalt Pavement Thickness for Heavy Wheel Loads
- Government Forms Software '98 (SF 254/255)
- Deed Plotter for Windows
- HEC-HMS
- HEC-RAS
- HEC-Storm Sewers
- Hydraflow Hydrographs
- Hydraflow Storm Sewers
- CP-4 Asphalt
- Server Software
 - Windows 2000 Professional Server
 - Microsoft Exchange 2000 Server
 - Symantec Anti-virus Server
 - Symantec Mail Security AVF filter for MS Exchange
 - Symantec Web Security
 - o Veritas Backup Exec 9.1 for Windows Servers
 - o TripLite Power Alert

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Hardware

- PIII (400MHz 1 GHz), 21 Stations total, up to 40GB Hard Drives
- P4 (1 GHz 2 GHz) (14)
- P4 (2 GHz 3.4 GHz) (5)
- Notebook Computers (6)
- Digital Cameras (3)
- Printers
 - o HP CP6015x
 - o KM 350
 - o KM 600
 - o KM C353
- Plotters
 - o HP DesignJet 1050C
 - o HP DesignJet 4020 PS
- Fax Machines
 - o HP 3100
 - o Brother MFC4600
- Copiers
 - o KM 350
 - o KM 600
 - o KM C353
- Firewall
 - o Cisco PIX 506E Security Appliance
- Compaq Proliant ML370 G2 Server
- TripLite UPS

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Rain Garden Design Build Huntington, WV	City of Huntington, WV 800 5 th Avenue Huntington, WV 25717	Project Lead, Civil Design, Surveying, Geotechnical Engineering, and QC testing and inspection	\$70,000.00	95%
Wastewater System Emprovements Minden, WV	Arbuckle PSD P.O. Box 369 Minden, WV 25879	Preliminary Civil Design, preliminary engineering report	\$6,000,000.00	50%
Nater System Improvements Toronto, Ohio	City of Toronto P.O. Box 189 416 Clark Street Toronto, Ohio 43964	Civil Design, Geotechnical, Surveying and Construction Administration	\$2,100,000.00	50%
Water System Emprovements Cunnelton, WV	Denver Water Association P.O. Box 146 Tunnelton, West Virginia 26444-0146	Civil Design, Geotechnical, Surveying and Construction Administration	\$1,000,000.00	90%
Raw Water System Improvements Bluefield, WV	Green Valley-Glenwood PSD P.O. Box 6099 Bluefield, WV 24701	Civil Design, Geotechnical, Surveying and Construction Administration	\$16,000,000.00	90%
South and Center Trunk Line WWTP Upgrade Design/Build Cadiz, Ohio	Village of Cadiz, Ohio 128 Court Street Cadiz, Ohio 43907	Civil Design, Geotechnical, Surveying and Construction Administration	\$3,500,000.00	90%
Sewer Study North Trunk Line Cadiz, Ohio	Village of Cadiz, Ohio 128 Court Street Cadiz, Ohio 43907	Civil Design, Geotechnical, Surveying and Construction Administration	\$3,500,000.00	90%

PROJEC .AME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YEAR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLEIE
Rutland Wastewater PER Meigs County, Ohio	Miegs County Commission 100 East Second St. Suite 301 Pomeroy, Ohio 45769	Civil Design, Geotechnical, Surveying and Construction Administration	\$4,500,000.00	100%
Rutland Water PER Meigs County, Ohio	Miegs County Commission 100 East Second St. Suite 301 Pomeroy, Ohio 45769	Civil Design, Geotechnical, Surveying and Construction Administration	\$1,200,000.00	100%
Water Line Extensions Salt Rock, WV	Salt Rock PSD 100 Padero Drive Ona, WV 25545	Civil Design, Geotechnical, Surveying and Construction Administration	\$1,800,000.00	50%
Wastewater Treatment Upgrades, Phase II Belle, WV	Town of Belle, WV 1100 East Dupont Ave. Belle, WV 25313	Civil Design, Geotechnical, Surveying and Construction Administration	\$3,800,000.00	80%
Water System Improvements Camden On Gauley, WV	Town of Camden on Gauley Mayor Avenue Camden on Gauley, WV 26208	Civil Design, Geotechnical, Surveying and Construction Administration	\$2,000,000.00	85%
Wastewater Improvements Hartford, WV	Town of Hardford PO Box 7 Hartford, WV 25247	Civil Design, Geotechnical, Surveying and Construction Administration	\$1,700,000.00	98%
Thacker Branch Water Line Matewan, WV	Town of Matewan P.O. Box 306 Matewan, WV 25678	Civil Design, Geotechnical, Surveying and Construction Administration	\$2,200,000.00	95%

16. Ct ENT ACTIVIT	IES ON WHICH YOUR FI	RM IS SERVING AS A S	-CONSULTANT TO OTH]	
PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CON	TRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY	
Proposed Wayne Impoundment Upshur County, WV	Geotechnical Engineering	Smith Land Surveying 226 West Main St. Glenville, WV 26351	On-going		\$13,500.00	
Sheetz Store # 467 Hurricane, WV	Quality Control Testing and Inspection	Sheetz, Inc. 242 Sheetz Way Claysburg, PA 16625	On-Going		\$25,000.00	
CPT 11 Access Road Upshur County, WV	Geotechnical Engineering	Smith Land Surveying 226 West Main St. Glenville, WV 26351	On-going		\$12,600.00	
Dupont Sump Location Survey Belle, WV	Surveying	Jacobs Engineering 500 Elk River Rd S Elkview, WV 25071	On-going		\$6,800.00	
Proposed Cent 22 Well Pad Upshur County, WV	Geotechnical Engineering	Smith Land Surveying 226 West Main St. Glenville, WV 26351	On-going		\$14,300.00	
Jupiter Bridge Foundation Bim, WV	Geotechnical Engineering	Patriot Coal P.O. Box 66823 St. Louis, MO 63166	On-going		\$5,000.00	
Proposed Troy 7 Well Pad Gilmer County, WV	Geotechnical Engineering	Smith Land Surveying 226 West Main St. Glenville, WV 26351	On-going		\$12,700.00	

		THE DESIGNATED ENGINEER OF RECORD		CONSTRUCTED
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	(YES OR NO)
Richardson Branch Complex Raleigh County, WV	WVDEP - AML&R 601 57 th Street Charleston, WV 25304	Engineering Design	2012	100%
Coaldale Refuse & Portals McDowell County, WV	WVDEP - AML&R 601 57 th Street Charleston, WV 25304	Engineering Design	2010	100%
Mullens Portals Project Wyoming County, WV	WVDEP - AML&R 601 57 th Street Charleston, WV 25304	Engineering Design	2011	100%
Elk Creek Portals Mingo County, WV	WVDEP - AML&R 601 57 th Street Charleston, WV 25304	Engineering Design & Mapping - Deep Mine Reclamation, Portal Closure, Project Specifications, Water Quality/Treatment, Construction Monitoring	2010	100%
Rumble (Stevens) Refuse & Portals Boone County, WV	WVDEP - AML&R 601 57 th Street Charleston, WV 25304	Engineering Design - Surface/Deep Mine Reclamation, Portal Closures, Project Specifications, Geotechnical Evaluations, Construction Monitoring	2010	100%
Belington Portals & Drainage Logan County, WV	WVDEP - AML&R 601 57 th Street Charleston, WV 25304	Engineering Design - Surface/Deep Mine Reclamation, Portal Closure, Project Specifications, Water Quality/Treatment, Geotechnical Evaluations, Construction Monitoring	2010	100%
America Church Bridge Replacement, Mingo County, WV	WVDOT / DOH 1900 Kanawha Blvd., East Charleston, WV 25305	Highway / Bridge Design	N/A	100%
FAA Improvement Projects (Various), Charleston, WV	Central WV Regional Airport Authority 100 Airport Road Charleston, WV 25311	Civil Engineering / Surveying	\$3-5M	90%

		ICH YOUR FIRM HAS BEEN A SUB-COM	SULTANT '	TO OTHER FIRMS	(INDICATE PHASE
PROJECT NAME, TYPE AND LOCATION	CCH YOUR FIRM WAS RESPONS: NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
502 Junction Substation, Mt. Morris, PA & PREXY Substation, Cannonsburg, PA	Preparation of an ALTA/ACSM Land Title Survey for Kenny Construction Co.	Allegheny Energy Service Co. 800 Cabin Hill Dr., Greensburg, PA 15601	2011	N/A	On-going project
Longview Power Plant Monongalia County, WV	Geotechnical / Subsurface Investigations, Drilling & Sampling, Surveying & Mapping, QA/QC, Laboratory Testing for Siemens Power Generation and Aker Construction	GenPower Holdings, L.P. 1040 Great Plain Ave., Needham, MA 02492	2010	\$1,820,000,00 0	Ongoing; \$750,000+
Raleigh Street Extension Berkeley County, WV	Geotechnical Engineering, Drilling & Sampling, Surveying & Mapping Services for PB Americas, Inc.	WVDOT / DOH 1900 Kanawha Blvd., East Charleston, WV 25305	2009 - 2010	N/A	Ongoing project
Nuttallburg Mine Complex, New River Gorge, WV	Geotechnical Engineering, Drilling, Lab Testing, Surveying & Construction Management	National Park Service PO Box 246 Glen Jean, WV 25846	2010	N/A	\$100,000
Sawmill Village Snowshoe, WV	Drilling & Sampling, Geological Services	Snowshoe Mountain Resort 10 Snowshoe Drive Snowshoe, WV 26209	2009	N/A	\$12,000
502 Junction Substation, Mt. Morris, PA & PREXY Substation, Cannonsburg, PA	Preparation of an ALTA/ACSM Land Title Survey for Kenny Construction Co.	Allegheny Energy Service Co. 800 Cabin Hill Dr., Greensburg, PA 15601	2011	N/A	On-going project

19. U this space to provide any additional information of description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program.

Triad Engineering, Incorporated (TRIAD) is a full service engineering firm specializing in the areas of geotechnical, civil and mining engineering and design, environmental assessment, surveying and mapping, construction monitoring, subsurface exploration, and laboratory testing, among other earth science disciplines. Our current work force includes civil, geotechnical and mining engineers, environmental scientists, geologists, hydrologists, chemists, surveyors, trained Computer Added Design Drafting (CADD) draftsmen, field and laboratory technicians, drillers and support personnel.

TRIAD was founded in Morgantown, West Virginia (WV) in 1975 by three principals who molded the firm based on their belief that if the highest standards were maintained throughout all aspects of the company, they would earn their clients' respect, therefore ensuring the firm's continued growth. Today, TRIAD has a staff of over 200 full-time employees and seven office locations in WV, Pennsylvania, Ohio, Maryland and Virginia. By providing an array of competent services, using modern equipment, and maintaining a well-trained professional staff, TRIAD has maintained the founders' philosophies and proven that customer satisfaction results in good relationships and repeat business.

Furthermore, TRIAD is an employee-owned company with an active Board of Directors. Current Officers and Board Members are:

- Chief Executive Officer (CEO) Tom Ali, PE
- Chief Operating Officer (COO) John Meeks, PG, LRS
- Chief Engineer Randy Moulton, PE
- Chief Financial Officer (CFO) Tina McPhail
- Chief Marketing Officer (CMO)
- Bob Bush, PS
- Chad Brinkley
- Robert Holstead, PE
- Roger Simar
- David Moore
- Brad Reynolds, PE

TRIAD has successfully performed thousands of projects utilizing its professional expertise. TRIAD employees pride themselves on their ability to provide the firm's clients with top-quality work that is on schedule and within budget. Our company is small enough to be responsive to the needs of our customers and large enough to remain at the forefront of scientific solutions.

We are extremely proud of our performance under past contracts, including those we have held with the WVDEP. As of this date, more than 400 AML&R projects have been undertaken by TRIAD. The vast majority of these projects have been successfully completed on time and within the proposed cost estimate. As always, TRIAD will commit the necessary resources to meet the needs of this project.

20. The foregoing is a statement of facts.		110 110
Signature:	Title: BUSINESS	Date: //6/14
Printed Name: DONE H. RYAN	DEVELOPMENT LEDDER	

I. INTRODUCTION

TRIAD ENGINEERING, INC., (TRIAD) proposes to perform surveying, geotechnical and other engineering services in order to develop engineering drawings, contract specifications and other contract documents as may be required for the letting of construction for the Glen Alum Complex Design Project. Factors that make TRIAD a strong candidate for consideration include:

- Past experience & complete familiarity with AML&R projects
- In-house capabilities
- Experienced professional and support personnel
- Totally employee owned and operated West Virginia firm
- Strong geotechnical background
- Outstanding laboratory facilities
- Expeditious & economical mobilization of drilling rigs, equipment and personnel
- · Experience in major design projects

TRIAD has completed over 400 projects for the DEP under various contracts. Each project has involved various areas of expertise and problem types. In addition to DEP related projects, TRIAD has successfully completed major design projects for other government agencies, large coal mining concerns, chemical manufacturers, developers, and various other clients. TRIAD'S direct responsibilities in these projects have included, but were not limited to:

- Permit Applications
- Surveying and Mapping
- Geotechnical Investigations and Analyses
- Hydrology and Hydraulics
- Design Development and Drawings
- Construction Specifications
- Construction Bid Packages
- · Construction Observation and Monitoring
- Construction Management



II. GENERAL EXPERIENCE AND CAPABILITIES

General Information

TRIAD is an engineering firm providing professional services in the areas of civil, environmental, mining, geotechnical and chemical engineering; site assessment; planning and landscape architecture; geology and hydrogeology; surveying and mapping; construction inspection, and materials testing; and, related earth-science disciplines. Our firm has provided services on many thousands of projects of varying size and complexity since beginning operations in 1975. Clients include mining and industrial companies, governmental agencies, contractors, architects, engineers, developers, owners and commercial organizations.

TRIAD was founded in 1975 in Morgantown, West Virginia by three civil engineers from West Virginia University. A second office was opened in Charleston, West Virginia in 1979 and later relocated to our present Scott Depot, West Virginia location. TRIAD

expanded into the northern Virginia area beginning in 1989 with offices in Winchester and Harrisonburg, Virginia, and began operations in Pennsylvania in 1990 with a full-



service office in Greensburg. Most recently, TRIAD has moved its Harrisonburg office to Ashburn, Virginia, it's Greensburg office to Pittsburgh, Pennsylvania, and opened offices in Hagerstown, Maryland and Athens, Ohio.

Facilities and equipment available to support our staff have grown substantially during the past 38 years. Each of our offices contains computer facilities that are utilized for



hydrogeologic evaluations, risk assessment, stability analyses, survey data reduction, mapping and site design. Our computer based drafting and reproduction facilities are used to develop detailed site plans (monochrome or color), construction details, and other graphic documentation as required for our projects. Our fleet of drilling rigs and support vehicles are based at our West Virginia and Virginia offices and are maintained in-house to meet the needs of our engineering and site assessment projects. Well equipped, modern state-of-the-art materials testing laboratories are also maintained at our offices to support our engineering and construction related projects. Our offices also utilize both standard 35-mm photography and digital cameras to photo-document our projects.

TRIAD currently includes a staff of more than 170 personnel located in seven offices. Our personnel include chemical, civil, environmental, geotechnical and mining engineers, as well as geologists and hydrogeologists, biologists, chemists, environmental scientists, planners, landscape architects, natural resource specialists, regulatory compliance specialists, permitting engineers, risk assessors, wetland delineators and health and safety specialists. Our technical support and administrative staff includes designers, draftsmen, surveyors, technicians, drillers, construction inspectors and clerical personnel. Most of our professional and technical staff have been with the company for many years. We pride ourselves on a very low turnover rate, which adds to continuity and enhances the level of productivity and experience afforded by TRIAD.

Surveying and Mapping

TRIAD has completed numerous mapping projects since our inception in 1975. These projects have included performing ground control for aerial mapping, field mapping of specific sites and/or obscured areas, and field mapping of in-stream topography. TRIAD



has performed topographic surveying and mapping and construction layout for large retail shopping outlets, as well as construction layout for major bridge/roadway projects under construction for the West Virginia Department of Transportation. TRIAD



utilizes state of the art tools and equipment including Global Positioning system base station and portable GPS HF radio receivers, as well as total station theodolites with electronic data collectors. Maps and plats are developed in either AutoCADD or Microstation format.

TRIAD maintains quality control by adherence to our standard Operating Procedures Manual for Surveying. This document is continuously updated to stay abreast of new survey innovations and accuracy standards. All topographic map development is completed to the standards set forth by the National Map Accuracy Standards or other appropriate quality standards. MSHA and OSHA Hazwoper trained survey crews are available for hazardous work environments.

TRIAD currently can field up to 15 experienced survey parties. Personnel making up these parties consist of licensed land surveyors, experienced instrument persons and rodmen. As can be seen on Block 14 of the WVDEP/AML Consultant Confidential Qualification Questionnaire (CCQQ), TRIAD possesses the most modern equipment available to perform surveying services to support the engineering design required for this project.

Subsurface Investigation

TRIAD currently maintains fifteen rotary drill rigs outfitted for geotechnical and environmental investigation work. All rigs and support trucks are outfitted for services which may be required on any project. Drilling equipment includes samplers, casing,

drill rods, coring bits, piping, pumps and various drilling tools. Most of our rigs are mounted on ATV, tracked and 4WD carriers. Skid mounted rigs are also available to permit gaining access to difficult locations without the need for dozer assistance. Air purifying and supplied air respirators are maintained in-house for drilling programs involving burning refuse where concentrated levels of carbon monoxide may be encountered. Our drill crews, field geologists and support personnel have received OSHA and MSHA safety training for work on





hazardous sites, and are certified monitoring well drillers. TRIAD employs a full time corporate safety officer responsible for ensuring the safety of our employees. TRIAD has performed drilling activities on an AML&R project where levels of CO were in excess of 1900 parts per million. Our drilling personnel are experienced in all phases of exploration work which may be required on this project.

Typical types of project for which we have provided drilling services include:

- Highways, bridges and haulroads
- Railways and sidings
- Refuse piles
- Burning refuse investigations
- · Dams and impoundments
- Valley fills
- Landslides
- · Subsidence investigations
- · Mile relatedness investigations
- · Coal preparation plants
- Commercial structures
- Residential structures
- Pavement design and evaluations
- Instrumentation installation
- Groundwater monitoring wells & piezometers
- Leaking underground storage tanks
- Landfills
- Hazardous waste investigations
- Special sampling and testing

Laboratory Services

Geotechnical testing and analysis has been a major discipline of TRIAD since our inception. In addition, we have facilities and equipment to perform various chemical and analytical testing. Fully equipped geotechnical testing laboratories are maintained in both our Morgantown and Scott Depot offices. An outline of our in-house laboratory and field testing capabilities is as follows:



Geotechnical and Materials Testing

- · Moisture content determinations
- Grain size analysis
- · Plastic limit determinations
- Liquid limit determinations
- Shrinkage limit
- · Slake durability testing
- Shear strength determinations
- Consolidation characteristics
- Permeability testing
- Compaction testing
- Soundness testing
- Specific gravity determinations
- CBR determinations
- Unit weight determinations

Chemical and Analytical Testing

Soil Analysis

- ph (field)
- ph (lab)

Water Analysis

- Temperature
- ph
- Specific Conductance
- Flow
- Iron Content



Design Engineering and Contract Document Preparation

TRIAD has extensive experience in design engineering and preparation of construction contract drawing on projects for the WVDEP/AML&R, OSMRE as well as similar projects for private concerns. TRIAD provides comprehensive design service to our clients on numerous types of projects. Professional services for all phases of civil / site development are available, including commercial and industrial site developments, landslide repair, dams, landfills, reclamation design, constructed wetlands, and airport developments. Utilizing the breadth of our in-house services, TRIAD's engineers oversee, and are responsible for, projects from the initial site visit to final design and acceptance by the owner. At TRIAD we pride ourselves on our ability to perform top-quality work for our clients, which is both on schedule and within budget. We believe our company is small enough to be responsive to the needs of our clients, and large enough to remain at the forefront of engineering technology and equipment

III. QUALIFICATIONS OF PERSONNEL

TRIAD now maintains a staff of over 175. The professional staff includes over 60 individuals with college degrees in the scientific and technical area of civil/geotechnical engineering, mining engineering, environmental engineering, geology, hydrogeology, and soil science/agronomy. Many of the professional staff have advanced degrees and are registered professional engineers, geologists or surveyors. The technical support and administrative staff includes engineering technicians, draftsman, surveyors, drillers, construction inspectors and clerical personnel. Most of our professional and technical staff have been with the company for many years. We pride ourselves in a very low turnover rate which adds to continuity and enhances the level of productivity and experience afforded by our company.

Since the company was founded in 1975, our personnel have successfully completed increasingly complex and difficult projects. Services include geotechnical engineering and general civil engineering design projects related to abandoned mine lands, mining and environmental engineering.



IV. CORPORATE SPECIALIZED EXPERIENCE



TRIAD has provided a wide range of services on coal related projects since the firm began operations more that thirty years ago. With this extensive experience in geotechnical, design engineering, surveying and mapping, and contract document preparation, we are expertly qualified to provide these services for the abatement of problems arising from abandoned mine lands. We maintain in-house expertise and capabilities for all phases of the abandoned mine lands program which require services in surveying and mapping, subsurface investigation, drilling, testing and geotechnical engineering, design engineering,

construction drawings and specifications, contract document preparation and other related technical and administrative duties associated with the successful completion of a design/construction project.

V. MANAGEMENT PLAN, LOCATION OF FACILITIES & WORK APPROACH

MANAGEMENT PLAN

Resource Allocation & Location of Facilities:

As indicated in other sections of this response, TRIAD has the staff, equipment and other resources to complete most AML&R projects totally in-house. The location of our offices and laboratories in Scott Depot and Morgantown gives us ready access to both the northern and southern coalfields of West Virginia. TRIAD'S staff of more than 175 individuals, our support equipment and facilities have been assembled to provide geotechnical, design, and other engineering related services to our clients. Our professional staff has extensive experience on AML&R, or similar design projects, and is well qualified to perform the work. If awarded this project, we are committed to allocating the personnel and resources required to complete the work in a timely, competent, and cost effective manner.



Management and Project Team Organization:

TRIAD will assign a project manager who will be responsible for the overall management of the project. The project manager will schedule a site visit with the AML&R Project Manager to familiarize himself with the work requirements and prepare a work plan for review. Our project manager will meet with AML&R personnel, to develop a complete understanding of the work directive and to answer any questions concerning the proposed work approach. The project manager will review the project requirements and assign team members and allocate resources needed for timely completion of the project.



Upon receipt of authorization to proceed with a project, the project manager will be responsible for daily execution and coordination of all phases of the project. He will supervise other staff members working on a project, and coordinate all field and laboratory activities. The project manager will also be responsible for maintaining liaison with AML&R personnel and, when required, issuing periodic progress reports.

As the project progresses, the project manager will periodically meet with AML&R personnel to review progress, discuss problems, and evaluate various corrective alternatives. Input from AML&R personnel will be actively solicited on each project.

Schedule and Budget Control:

The project manager will be responsible for monitoring and controlling project schedules and budget. As the work progresses, the project manager will evaluate progress on a weekly basis and compare the progress to the established work schedule. If these reviews indicate that a schedule problem is developing, the project manager will meet to discuss the problem and explore options for correcting the situation. If circumstances develop that will make it impossible to maintain the original schedule, AML&R personnel will be immediately informed of the situation and a mutually satisfactory schedule adjustment will be made.



Personnel time and expense charges are maintained and allocated to projects on a weekly basis. Using this data, together with his knowledge of exploration, testing and subcontractor costs, the project manager will review project budget status on a weekly basis. Unless there are changes in the project scope, the originally agreed upon scope will be adhered to. Should changes in the project scope occur, AML&R personnel will be notified immediately. The original project budget will be revised to reflect the change in scope.

WORK APPROACH

Work Directive and Initial Planning:

Upon notice to proceed, our project manager will review the work directive, discuss the project with AML&R personnel and visit the site to become familiar with the project and work requirements. Available site information and data, such as results of previous borings, geologic reports, or old mine maps will be reviewed. Based on this information, the project manager will plan the scope of work required including: surveying and mapping, subsurface investigation and laboratory analysis.

Surveying and Mapping:

Prior to undertaking any surveying, our project manager will meet with our surveying staff to determine the extent and required accuracy of the work involved. We will then determine if existing mapping such as U.S.G.S., or Corps of Engineers, Highway Department or other utility mapping is available for the area. Should satisfactory existing mapping be available, we will utilize this (along with such location or "fill-in" surveys as are necessary) in order to minimize the project cost.

Subsurface Investigation:

The project manager will determine the best suited equipment, personnel, and access routes for drilling equipment, such that drilling work can begin as quickly as possible. The results and progress of the drilling work will be monitored on a continuing basis by the project manager to determine that the needed information is being obtained. When necessary, the drilling program will be revised as it progresses to account for unanticipated conditions. The need for special drilling procedures, observation wells,



piezometers, slope inclinometers, angle borings, and hand sampling techniques, etc. will be evaluated by the project manager.

Laboratory Testing:

Testing requirements for the project will be developed by our project manager or a designated member of the project team. Since all of the testing will be performed inhouse, the results can and will be evaluated on an on-going basis. This will permit us to eliminate unneeded tests before they are performed and to revise the testing program to better provide data which will be useful for project evaluation and design.

Design Development Report:

After the field and laboratory investigations are complete, an engineering report will be prepared and submitted to the DEP for review and comment. The report will contain:

- 1. Project description
- 2. Boring location plan and topographic mapping
- 3. Boring logs
- 4. Description of subsurface conditions including soil, bedrock and groundwater
- Laboratory test results
- 6. Recommended alternative(s)
- 7. Special recommendations such as potential environmental effects of the design, damage to adjacent property, loss of use, and future effects.

After review and approval, TRIAD will proceed with preparation of construction documents including Drawings, Specifications, and a Detailed Cost Estimate.

Design Drawing and Specifications:

Design drawings and specifications will be prepared to meet the site specific criteria for the project. The drawings will accurately reflect the site conditions and depict the proposed work in a clear and understandable manner. The drawing packages will as a minimum include a site plan, cross sections, and details as necessary to define the scope of work. Detailed technical specifications will be prepared for general working conditions as well as each work item. The specifications will be the contractor's guide to the work and will set the guidelines for quality and materials to be used in the



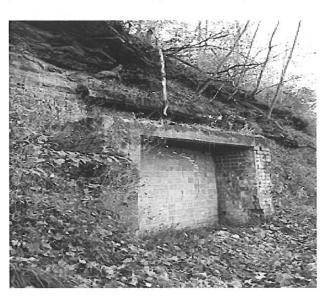
construction. All work will be reviewed and certified by one of our registered professional engineers.

Construction Cost Estimate:

Upon completion of the final plans and specifications, the expected cost of the work will again be evaluated. This cost evaluation will be made using unit cost data from various sources (i.e. previous bids on similar projects, information solicited from contractors, Departments of Highways, construction cost data, Means unit cost, etc.) The final cost estimate will be discussed with AML&R personnel and, whenever necessary, revisions to the plans and specifications will be made to bring the estimated costs in line with the project budget. We expect to coordinate our efforts with the DEP throughout the project so that the need for final revision will be minimal.

Project Meetings:

Our engineers will meet with AML&R representatives on an as-needed basis during the planning and design phases of the project to assure an understanding of the work scope for that project and to keep the DEP informed of our progress and results. Upon completion of the design phase, our personnel will be available to attend pre-bid and pre-construction meetings to answer questions concerning the design and clarify the



intent of the drawings and specifications.

Project team personnel will also be available to make periodic inspections during construction and do make a final inspection upon completion of construction.

Summary reports of our inspections will be prepared and submitted to the DEP. These reports will summarize our observations of construction

activities and progress and will indicate any problems which are observed. If construction problems or deficiencies are observed, recommended solutions will be presented in the inspection reports.



RELATED SERVICES

QA/QC, MATERIALS TESTING, CONSTRUCTION MONITORING

Construction monitoring services provided by Triad Engineering include soil, concrete, aggregate, asphalt, steel, welding, and paint. Triad maintains a staff of engineering technicians who are certified by state-specific highway and materials departments, ACI, FAA, and others. Triad's engineering technicians work under the close supervision of registered professional engineers.

Senior level technicians are skilled in interpreting design drawings, as well as typical construction inspection and testing. Services provided on these projects have included: testing of compacted fill with a nuclear moisture density gauge, documentation of construction personnel hours and equipment utilized, quantity determinations, submittal of daily and weekly reports, interpretation of technical specifications, inspection of liner installation, and construction recommendations. Triad routinely provides technicians with OSHA and/or MSHA certification.

Services Include:

- Field Quantity Estimates and Verification
- Inspection of Deep Foundations, including Driven Piles, Caissons, and Auger Cast Piles
- Footing Inspection and Bearing Capacity Evaluation
- Field Concrete Testing and Sampling, including Coring, Windsor Probe, and Rebound Hammer Testing

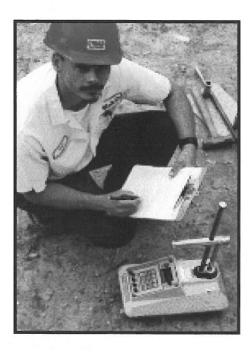




QA/QC, MATERIALS TESTING, CONSTRUCTION MONITORING

Services continued:

- Batch Plant Inspection
- Steel Inspection, including Bolt Torque,
- Visual Weld Inspection, and Dye Testing
- Penetrant Testing
- Paint Thickness (Wet and Dry Film)
- Water Testing, including pH, Iron, and Turbidity
- Fireproofing Inspection
- Floor Flatness Testing
- In-place Density Testing
- Grade Checking
- Nuclear Moisture Density Gauge Testing



Abandoned Mine Lands Completed Projects – 1992 to Present Triad Engineering St. Albans, West Virginia

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
	Jim's Branch Refuse Piles	Wyoming Co.	Surveying, Mapping, CADD
	Newsome Branch Refuse	McDowell Co.	Surveying, Mapping, CADD
	Red Hollow Burning Refuse	Mercer Co.	Surveying, Mapping, CADD
	Turnhole Branch	McDowell Co.	Surveying, Mapping, CADD
	Newett (Crum) Burning Refuse	Logan Co.	Drilling & Sampling, Temperature Probes
	Campbell's Creek (Hodge) Landslide	Kanawha Co.	Drilling, Geotechnical Analyses
	Decota (Persinger) Landslide	Kanawha Co.	Drilling, Geotechnical Analyses
	Beckley (Long) Subsidence	Raleigh Co.	Drilling, Geotechnical Analyses
u	Tuppers Creek (Turley) Drainage	Kanawha Co.	Drilling, Geotechnical Engineering
	Kelly's Creek Portals, Burning Refuse	Kanawha Co.	Surveying, Mapping, CADD
	Welch (Moore) Vertical Opening	McDowell Co.	Drilling, Engineering, Temperature Probes
	Milburn Burning Refuse	Kanawha Co.	Drilling, Surveying, Engineering
u	Whitesville (Averson) AML	Boone Co.	Drilling & Sampling
3	Kelly's Creek Road Burning Refuse	Kanawha Co.	Drilling, Surveying, Engineering
	Manila Creek (Bryant) Landslide	Putnam Co.	Drilling, Surveying, Engineering
	Hilltop (Logan) Subsidence	Fayette Co.	Drilling, Subsidence Investigation
	Taylorville (Garten) Drainage	Mingo Co.	Drilling & Sampling
	MacArthur Subsidence	Raleigh Co.	Drilling, Subsidence Investigation
	Carbon (Williams) Burning Refuse	Kanawha Co.	Drilling & Sampling, Temperature Probes
	Davis Creek (Larabee) Subsidence	Kanawha Co.	Drilling, Subsidence Investigation
	Chapmanville AML	Logan Co.	Drilling & Sampling
	Dry Branch Burning Refuse	Kanawha Co.	Drilling, Geologic Investigation
	Henline Subsidence	Harrison Co.	Drilling, Subsidence Investigation
	Pauley Burning Coal Seam	Kanawha Co.	Drilling, Subsidence Investigation

West Virginia Department of Environmental Protection

Office of Abandoned Mine Lands and Reclamation **Completed Projects – 1992 to Present** Triad Engineering St. Albans, West Virginia Page 2

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
A	Stevenski Subsidence	Marion Co.	Subsidence Investigation
1	Albert Highway	Tucker Co.	Investigation, Design, Re-grade, Drainage, Portals
_	A.S.&K. Bond Forfeiture	Monongalia Co.	Surface & Deep Mine Drainage Investigation
9	F & M Coal	Preston Co.	Surveying, Mapping, CADD
	Moran Subsidence	Marion Co.	Subsidence Investigation
0	Monongah (Mayo) subsidence	Marion Co.	Subsidence Investigation
9	Mount Claire Refuse	Harrison Co.	Investigation and design, Refuse, Drainage, Re-grade
	Fairmont (Shipco) Subsidence	Marion Co.	Subsidence Investigation
2	Farmington (Gum) Subsidence	Marion Co.	Subsidence Investigation
	Rivesville (Straight) Subsidence	Marion Co.	Subsidence Investigation
	Morgantown (Fox) Subsidence	Monongalia Co.	Subsidence Investigation
	Fairmont (Parks) Subsidence	Marion Co.	Subsidence Investigation
4	Moundsville (Oliver) Subsidence	Marshall Co.	Subsidence Investigation
1	Fairmont (Hines) Subsidence	Marion Co.	Subsidence Investigation
•	Morgantown (McCabe) Subsidence	Monongalia Co.	Subsidence Investigation
9	Ashland (Poca Land) Complex	McDowell Co.	Surveying, Mapping, CADD
3	Helen (Lewis) Refuse	Raleigh Co.	Surveying, Mapping, CADD
•	Minden Mine Dump	Fayette Co.	Surveying, Mapping, CADD
9	Pageton Refuse Pile	McDowell Co.	Surveying, Mapping, CADD
	Eckman Refuse Pile	McDowell Co.	Surveying, Mapping, CADD
3	Micco (Elledge) Drainage	Mingo Co.	Drilling, Geotechnical Analyses, Surveying
J	Big Creek "C"	Logan Co.	Drilling, Geotechnical Analyses
	MacArthur (Brush) Subsidence	Raleigh Co.	Drilling, Subsidence Investigation
	Davis Creek (Snodgrass) Subsidence	Kanawha Co.	Drilling, Subsidence Investigation

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
	MacArthur (Kinsley) Subsidence	Raleigh Co.	Drilling, Subsidence Investigation
	Taylorville Drainage II	McDowell Co.	Drilling & Sampling, Engineering
	Elbert (Lane)	Mingo Co.	Drilling & Sampling
A	Glen Morgan (Lilly) Subsidence	Boone Co.	Drilling, Subsidence Investigation
	Marrowbone Creek (Dingess) Landslide	Mingo Co.	Drilling & Sampling, Engineering
	Black Betsy (Adkins) Landslide	Putnam Co.	Drilling, Surveying, Engineering
	Chief Logan State Park Dam	Logan Co.	Drilling, Surveying & Mapping, Engineering CADD
	Apple Grove (Smith) Subsidence	Mason Co.	Drilling, Subsidence Investigation
y	Logan Landslide	Logan Co.	Drilling & Sampling
	Midway (McVey) Subsidence	Raleigh Co.	Drilling, Subsidence Investigation
	Williamson Branch (Warren) Landslide	Mingo Co.	Drilling & Sampling
	Peter Street (McNeely) Drainage	Mingo Co.	Drilling & Sampling
u	Hanover (Alley)	McDowell Co.	Drilling, Geologic Investigation
	Kilsyth (Burdette) Drainage	Raleigh Co.	Drilling & Sampling
	Crane Creek Drainage	Logan Co.	Surveying, Mapping, CADD
	Logan (Marcum) Drainage	Logan Co.	Drilling & Sampling
2	Chapmanville Landslide	Logan Co.	Drilling & Sampling
	Davis Creek (Oxley) Subsidence II	Kanawha Co.	Drilling & Sampling
	Follansbee (Martino) Subsidence	Brooke Co.	Subsidence Investigation
	Collier (Valero) Subsidence	Collier	Subsidence Investigation
	Philli Lane Subsidence	Harrison Co.	Subsidence Investigation and Stabilization Design
	Wheeling (Naegele) Subsidence	Wheeling	Subsidence Investigation
	Clarksburg (Siebert) Subsidence	Clarksburg	Subsidence Investigation
	Fairmont (Lawson) Subsidence	Fairmont	Subsidence Investigation
	Monongah Filtration Plant	Monongah	Emergency Subsidence Investigation

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
	Estes Landslide II	Harrison Co.	Geotechnical Investigation & Design, Slopes, Drainage
	Warsewich Subsidence	Morgantown	Subsidence Investigation
	Fairmont (Harmon) Subsidence	Fairmont	Subsidence Investigation
4	Fairview (Toothman) Subsidence	Fairview	Subsidence Investigation
	Fairmont (Robinson) Subsidence	Fairmont	Subsidence Investigation
40	Fairmont (Pizatella) Subsidence	Fairmont	Subsidence Investigation and Emergency Design
	Follansbee (Banfi) Subsidence	Follansbee	Subsidence Investigation
	Shinnston (Vincent) Subsidence	Shinnston	Subsidence Investigation
u	Shinnston (Ours) Subsidence	Shinnston	Subsidence Investigation
	Brookhaven (Hearn) Subsidence	Brookhaven	Subsidence Investigation
	Fairmont (Cannon) Subsidence	Fairmont	Subsidence Investigation
	Canyon Road Refuse	Morgantown	Burning Refuse Remediation Design
	West Milford (Deverick) Landslide	Clarksburg	Investigation & Design, Geotechnical, Slopes, Drainage
3	Fairview (Abel) Subsidence	Fairview	Subsidence Investigation
	Mannington (Hwakinberry) Subsidence	Fairview	Subsidence Investigation
	Shinnston (Vincent) Subsidence	Shinnston	Subsidence Investigation
7	Fairmont (Knoll) Subsidence	Fairmont	Subsidence Investigation
	Clarksburg (Thompson) Subsidence	Clarksburg	Subsidence Investigation
	Shinnston (Hall) Subsidence	Shinnston	Subsidence Investigation
	Clarksburg (Weekly) Subsidence	Clarksburg	Subsidence Investigation
	Colliers (Kiger) Subsidence	Colliers	Subsidence Investigation
	Philippi (Hansford) Subsidence	Philippi	Subsidence Investigation
	Whitman Flats	Randolph Co.	Investigation, Design, Drainage, Refuse Re-grade, Surface Mine

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
	Marmet (Pauley) Landslide	Kanawha Co.	Drilling & Sampling, Engineering
	Rawl (Russel) Drainage	Mingo Co.	Surveying, Mapping, CADD
	Lefthand Fork (See)	Logan Co.	Surveying, Mapping, CADD
	Algoma Refuse Piles	McDowell Co.	Surveying, Mapping, CADD
	Lorado (Grimmett) Mine Drainage	Logan Co.	Surveying, Mapping, CADD
	Amherstdale (Carter) Landslide	Logan Co.	Surveying, Mapping, CADD
	Chauncey (Sammons) Drainage	Logan Co.	Drilling & Sampling
	Sophia (McKinney) Subsidence	Raleigh Co.	Drilling, Subsidence Investigation
4	Beckley (Johnson) Subsidence	Raleigh Co.	Drilling, Subsidence Investigation
	Beckley (Wood) Subsidence	Raleigh Co.	Drilling, Subsidence Investigation
	Pratt (Crookshank) Landslide	Raleigh Co.	Drilling & Sampling
	Kirk (Caperton) Landslide	Mingo Co.	Drilling & Sampling, Engineering
u	Crooked Creek Refuse	Logan Co.	Surveying & Mapping
	Branchland Landslide	Lincoln Co.	Drilling & Sampling
	Hanshew Subsidence	Kanawha Co.	Drilling, Subsidence Investigation
4	Belle (Turner) Landslide	Kanawha Co.	Drilling, Surveying, Engineering, CADD
	Hugheston Monitoring Well	Kanawha Co.	Drilling, Well Installation
	Delbarton (Spence) Subsidence	Mingo Co.	Drilling, Subsidence Investigation
_	Haynes Landslide	Kanawha Co.	Drilling & Sampling
	Campbell's Creek Landslide	Kanawha Co.	Drilling & Sampling
	Shrewsbury Landslide	Kanawha Co.	Drilling & Sampling
	Thurmond Landslide	Fayette Co.	Drilling & Sampling
	Crab Orchard Subsidence	Raleigh Co.	Drilling, Subsidence Investigation
4.6	Crooked Creek Coal Refuse	Logan Co.	Drilling, Engineering

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
	Campbell's Creek Subsidence	Kanawha Co.	Drilling & Sampling
	Latrobe (Gibson) Landslide	Logan Co.	Drilling & Sampling
	North Charleston (Toon) Landslide	Kanawha Co.	Surveying, Mapping, Drilling, Design
4	Wilkinson Landslide	Kanawha Co.	Drilling, Surveying, Mapping, Design
	Sophia (Lucas) Subsidence	Raleigh Co.	Drilling, Subsidence Investigation
	Sophia (Lawrence) Subsidence	Raleigh Co.	Drilling, Subsidence Investigation
	Zickefoose Subsidence	Raleigh Co.	Drilling Subsidence Investigation
	Oak Hill (Huddleston) Subsidence	Oak Hill	Drilling, Subsidence Investigation
u	Lumberport (Peterson) Subsidence	Lumberport	Subsidence Investigation
	Farmington (Hefner) Subsidence	Farmington	Subsidence Investigation
	Clarksburg (LeFevre) Subsidence	Clarksburg	Subsidence Investigation
	Fairmont (Hanne) Subsidence	Fairmont	Subsidence Investigation
	AML Surveying & Mapping	Various	Surveying & Mapping
J	Moundsville (Frame) Subsidence	Moundsville	Subsidence Investigation
	Wheeling (Roshak) Subsidence	Wheeling	Subsidence Investigation
4	Ida May (Heldreth) Subsidence	Ida May	Subsidence Investigation
	Mannington (Brinegar) Subsidence	Mannington	Subsidence Investigation
	Moundsville (Wolfe) Subsidence	Moundsville	Subsidence Investigation
	Follansbee (Turkaly) Subsidence	Follansbee	Subsidence Investigation and Stabilization Design
	Garrett Drainage	Preston Co.	Geotechnical Investigation for In-house Design
	Fairmont (Tims) Subsidence	Fairmont	Subsidence Investigation
	Clarksburg (Walker) Subsidence	Clarksburg	Subsidence Investigation
	Clarksburg (Hall) Subsidence	Clarksburg	Subsidence Investigation
	Kanes Creek Refuse Pile	Preston Co.	Investigation & Design, Refuse, Drainage, Re-grade
	Windsor (Dawson) Subsidence	Winsdor	Subsidence Investigation

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
	Wheeling (Scott) Subsidence	Wheeling	Subsidence Investigation
	Fairmont (Skaggs) Subsidence	Fairmont	Subsidence Investigation
	Harris Drainage	Clarksburg	Subsurface Investigation for In-house Design
4	Weston Hospital AML	Weston	Deep Mine (Portal) Drainage Design
	Fairmont (Twyman) Subsidence	Fairmont	Subsidence Investigation
	Wheeling (Innocenti) Subsidence	Wheeling	Subsidence Investigation
	Fairmont (Brown) Subsidence	Fairmont	Subsidence Investigation
	Fairmont (Vincent) Subsidence	Fairmont	Subsidence Investigation
u	Moundsville (Parento) Subsidence	Moundsville	Subsidence Investigation
	Follansbee (Mossor) Subsidence	Follansbee	Subsidence Investigation
	Wheeling (Shultz) Subsidence	Wheeling	Subsidence Investigation
	Wellsburg (Hubbard) Subsidence	Wellsburg	Subsidence Investigation
	Moundsville (Oelshalger) Subsidence	Moundsville	Subsidence Investigation
J	Fairmont (Sterratt) Subsidence	Fairmont	Subsidence Investigation
	Wheeling (Sprowls) Subsidence	Wheeling	Subsidence Investigation
-	Morgantown (Fox) Subsidence	Morgantown	Subsidence Investigation
Λ	Farmington (Goodnight) Subsidence	Farmington	Subsidence Investigation
	Fairmont (Tichenor) Subsidence	Fairmont	Subsidence Investigation
	Fairmont (Ferrise) Subsidence	Fairmont	Subsidence Investigation
	Barrackville (Garlow) Subsidence	Barrackville	Subsidence Investigation
	Kittle Flats	Randolph Co.	Investigation & Design, Re-grade, Surface Mine, Drainage, AMD

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
	Crab Orchard (Mullins) Subsidence	Raleigh Co.	Subsidence Investigation, Drilling
	Welch (Frezier) Subsidence	Welch	Subsidence Investigation, Drilling
	Logan (Browning) Landslide	Logan	Drilling, Surveying & Mapping, Engineering
	Holly Grove "A" Landslide	Kanawha Co.	Surveying, Mapping, CADD
	Big Cub Creek Refuse Pile	Wyoming Co.	Surveying, Mapping, CADD
	Blue Pennant Complex	Boone Co.	Surveying, Mapping, CADD
	Toler Hollow Portals	Wyoming Co.	Surveying, Mapping, CADD
	Rocklick (Beckett) Landslide	Boone Co.	Surveying, Mapping, CADD
u	Indian Ridge Refuse Pile	Wyoming Co.	Surveying, Mapping, CADD
	New Haven (Collier) Subsidence	New Haven	Subsidence Investigation, Drilling
	Aracoma (Napier) Drainage	Logan	Drilling & Sampling
	Hansford Landslide	Crown Hill	Drilling & Sampling
	Padgett Subsidence	Whitman	Subsidence Investigation, Drilling
J	Dry Branch Drainage	Kanawha Co.	Drilling & Sampling
	Lockhart Subsidence	War	Subsidence Investigation, Drilling
	Burning Refuse	Williamson	Drilling & Sampling
5	Cannelton (Miller) Drainage	Fayette Co.	Drilling & Sampling
	Logan (Robinson) Drainage	Logan	Drilling, Engineering, Geologic Investigation
	Beckley (Colacino) Subsidence	Beckley	Subsidence Investigation, Drilling, Surveying
	Holly Grove "A" Landslide	Kanawha Co.	Drilling, Surveying & Mapping, Design
	Campbell's Creek (Stone) Drainage	Kanawha Co.	Surveying & Mapping, Drilling
	Eccles (McGinnis) Subsidence	Eccles	Subsidence Investigation, Drilling
	Whitewater Branch Drainage	Nicholas Co.	Drilling & Sampling, Geologic Investigation
	Jim Branch (Tyree) Landslide	Boone Co.	Drilling & Sampling, Geologic Investigation
	Upper Decker's Creek	Preston Co.	Subsurface Investigation for In-house Design

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
	Childs Highwall & Portals	Preston Co.	Investigation & Design, Re-grade, Surface Mine, Drainage, AMD
	Martin Creek	Preston Co.	Investigation & Design, Drainage, AMD, Re-grade, Surface &
			Deep Mine, Hazardous Materials
4	AML Surveying & Mapping	Various	Surveying & Mapping, CADD
	Grant Town (Domico) Subsidence	Grant Town	Subsidence Investigation, Drilling
	Fairview (Toothman) Subsidence	Fairview	Subsidence Investigation, Drilling
	Wheeling (Stazenski) Subsidence	Wheeling	Subsidence Investigation, Drilling
	Moundsville (Feiszh) Subsidence	Moundsville	Subsidence Investigation, Drilling
u	Weirton (Tingler) Subsidence	Weirton	Subsidence Investigation, Drilling
	Monongah (Eller) Subsidence	Monongah	Subsidence Investigation, Drilling
	Steadman AMD	Monongalia Co.	Investigation & Design, Deep Mine, Drainage, AMD
	Morgantown (Cryster) Subsidence	Morgantown	Subsidence Investigation, Drilling
	Fairmont (Long) Subsidence	Fairmont	Subsidence Investigation, Drilling
	Kiser Subsidence Design	Marion Co.	Investigation & Design of Deep Mine Stabilization
	Fairmont (Kropog) Subsidence	Fairmont	Subsidence Investigation, Drilling
-	Glen Dale (Goddard) Subsidence	Glen Dale	Subsidence Investigation, Drilling
5	Buckhannon (Swecke) Subsidence	Buckhannon	Subsidence Investigation, Drilling
	Fairmont (King) Subsidence	Fairmont	Subsidence Investigation, Drilling
	Bolyard Well Bond Forfeiture Site	Preston Co.	Well Abandonment, Design & Performance
	Colliers (Stevens) Subsidence	Colliers	Subsidence Investigation, Drilling
	Wheeling (Hanna) Subsidence	Wheeling	Subsidence Investigation, Drilling
	Wheeling (Witsberger) Subsidence	Wheeling	Subsidence Investigation, Drilling
	Fairmont (JHEK) Subsidence	Fairmont	Subsidence Investigation, Drilling
	Fairmont (Greene) Subsidence	Fairmont	Subsidence Investigation, Drilling
	Fairmont (Mercer) Subsidence	Fairmont	Subsidence Investigation, Drilling

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
	Fairmont (Bionti) Subsidence	Fairmont	Subsidence Investigation, Drilling
	Thomas (Bible) Subsidence	Thomas	Subsidence Investigation, Drilling
	Thomas (Simmons) Subsidence	Thomas	Subsidence Investigation, Drilling
	Thomas (Rhodes) Subsidence	Thomas	Subsidence Investigation, Drilling
	Fairmont (Crowe) Subsidence	Fairmont	Subsidence Investigation, Drilling
4	Bland (AML)	Monongalia Co.	Subsurface Investigation, Geotechnical, Drainage, Deep Mine
	Commodore (AML)	Monongalia Co.	Subsurface Investigation, Geotechnical, Drainage, Deep Mine
	Stephenson (Mills) Subsidence	Wyoming Co.	Subsidence Investigation, Drilling
	Cedar Grove (Ramsey) Landslide	Kanawha Co.	Subsurface Investigation, Drilling, Geologic Investigation
	Logan (Ross) Landslide	Logan	Engineering, Drilling
	Beckley (Davis) Subsidence	Raleigh Co.	Subsidence Investigation, Drilling
	Oak Hill (Slates) Subsidence II	Oak Hill	Subsidence Investigation, Drilling
	Welch (Coleman) Subsidence	Welch	Subsidence Investigation, Drilling
	Black Wolfe Refuse Pile	McDowell Co.	Surveying & Mapping, CADD
	Shannon Branch Refuse Pile	McDowell Co.	Surveying & Mapping, CADD
9	Lower Burning Creek Complex	Mingo Co.	Surveying & Mapping, CADD
	Duo Refuse Piles	Greenbrier Co.	Surveying & Mapping, CADD
	Mullins Landslide	Wyoming Co.	Drilling, Surveying, Engineering
	Crab Orchard (Mullins) Subsidence	Raleigh Co.	Drilling, Subsidence Investigation
	Williamson (Brown) Landslide	Williamson	Drilling & Sampling
	Thaxton Landslide II	Kanawha Co.	Drilling, Engineering, Geologic Investigation
	Dingess Street (Jemerison) Landslide	Logan	Drilling & Sampling
	Cedar Grove (Bass) Landslide	Kanawha Co.	Drilling, Surveying, Engineering
	Campbell's Creek (Stone) Drainage	Kanawha Co.	Surveying & Mapping
	Crab Orchard (Zickafoose II)	Raleigh Co.	Drilling & Sampling

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
	Glen Jean Subsidence	Glen Jean	Drilling, Subsidence Investigation
	MacArthur (Green) Subsidence	Raleigh Co.	Drilling, Subsidence Investigation
	East Oak Hill (Tincher) Subsidence	Oak Hill	Drilling, Subsidence Investigation, Engineering
	Football Stadium Subsidence	Mt. Hope	Drilling, Surveying, Engineering
	Shrewsberry (Burgess) Landslide	Kanawha Co.	Drilling, Surveying, Engineering
4	Clarksburg (McGinnis) Subsidence	Clarksburg	Drilling, Subsidence Investigation
	Fairmont (Retton) Subsidence	Fairmont	Drilling, Subsidence Investigation
	Fairmont (Golden) Subsidence	Fairmont	Drilling, Subsidence Investigation
_	Wheeling (Zambito) Subsidence	Wheeling	Drilling, Subsidence Investigation
	Wellsburg (Fillinger) Subsidence	Wellsburg	Drilling, Subsidence Investigation
	MeMechen (Schmitt) Subsidence	Moundsville	Drilling, Subsidence Investigation
	Stillhouse Run Refuse	Galloway	Investigation, Design, Refuse Re-grade, Drainage
	Wellsburg (Ohler) Subsidence	Wellsburg	Drilling, Subsidence Investigation
	Gypsy (Abruzzino) Drilling	Gypsy	Subsurface Investigation for In-house Design
	Fairmont (Levine) Subsidence	Fairmont	Drilling, Subsidence Investigation
3	Wayne Shreve Portals	Harrison Co.	Investigation, Design, Drainage, Portals, Deep Mine, AMD
	Pumpkintown, Kingsville, & Mabie	Randolph Co.	Feasibility Study, Deep Mine, Surface Mines, Water Lines, AMD
	Waterline Feasibility Study		Contamination
	AML Surveying & Mapping	Various	Surveying & Mapping, CADD
	Fairmont (Cross) Subsidence	Fairmont	Drilling, Subsidence Investigation
	Fairmont (Delovich) Subsidence	Fairmont	Drilling, Subsidence Investigation
	Fairmont (Orisini) Subsidence	Fairmont	Drilling, Subsidence Investigation
	Morgantown (Amos) Subsidence	Morgantown	Drilling, Subsidence Investigation
	Karickhoff Mine Drainage	Monongalia Co.	Subsurface Investigation for In-house Design
	Fairmont (Danko) Subsidence	Fairmont	Drilling, Subsidence Investigation

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
A	Fairmont (Bosley) Subsidence	Fairmont	Drilling, Subsidence Investigation
1	Fairmont (Neely) Subsidence	Fairmont	Drilling, Subsidence Investigation
^	Thomas (Heasley) Subsidence	Thomas	Drilling, Subsidence Investigation
9	Thomas (Paugh) Subsidence	Thomas	Drilling, Subsidence Investigation
•	Fairmont (Pitsy) Landslide	Fairmont	Drilling, Subsidence Investigation
9	Turkey Run Slide & Drainage	Upshur Co.	Subsurface Investigation for In-house Design
	Tunnelton (Myers) Subsidence	Tunnelton	Drilling, Subsidence Investigation
6	Fairview (Weaver) Subsidence	Fairview	Drilling, Subsidence Investigation
	Monongah (Longfellow) Subsidence	Monongah	Drilling, Subsidence Investigation
	Fairmont (Kiser) Confirmation Drilling	Fairmont	Confirmation of Deep Mine Stabilization
	Pine Bluff Tipple and Portal	Harrison Co.	Subsurface Investigation for In-house Design
1	Thomas (Uchic) Subsidence	Thomas	Drilling, Subsidence Investigation
	Rivesville (Miller) Subsidence	Rivesville	Drilling, Subsidence Investigation
9	Fairmont (Christ Temple) Subsidence	Fairmont	Drilling, Subsidence Investigation
9	Fairmont (Dukich) Subsidence	Fairmont	Drilling, Subsidence Investigation
9	AML Surveying and Mapping	Various	Surveying & Mapping, CADD
9	Fairmont (Renner) Subsidence	Fairmont	Drilling, Subsidence Investigation
7	Hiawatha Mine Dump	Hiawatha	Surveying & Mapping, CADD
	Booths Hollow Highwall	Bramwell	Surveying & Mapping, CADD
	Turkey Wallow Refuse Pile	Wolf Pen	Surveying & Mapping, CADD
	Sophia (Hayworth) Subsidence	Sophia	Drilling, Subsidence Investigation
	Dan's Branch (Cline) Landslide	Williamson	Drilling, Engineering, Geologic Investigation
	Spring Branch Burning Refuse	Milburn	Surveying & Mapping, CADD

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
	Whitby (Lilly) Clogged Stream/Portals	Whitby	Surveying & Mapping, CADD
	Ennis Complex	Maybeury	Surveying & Mapping, CADD
	Carswell Hollow (Smith) Refuse	Kimball	Surveying & Mapping, CADD
	MacArthur (Kinsley) Vertical Opening	MacArthur	Drilling, Subsidence Investigation
	Stanaford (Vira) Subsidence	Beckley	Drilling, Subsidence Investigation
4	Logan AML	Logan	Drilling & Sampling
	Norton Waterline	Randolph Co.	Surveying, Mapping, Subsurface Investigation, Design
	Kelly's Creek (Jones) Landslide	Kanawha Co.	Drilling, Surveying & Mapping, Engineering
_	Crab Orchard (Rye) Subsidence	Raleigh Co.	Drilling, Subsidence Investigation
	Marmet (Willis Drive) Landslide	Marmet	Drilling & Sampling
	Peter Street (Bragg) Landslide	Williamson	Drilling, Engineering, Geologic Investigation
	Pinnacle Creek Refuse Pile	Wyoming Co.	Drilling, Surveying, Engineering
	Clarksburg (Felts) Subsidence	Clarksburg	Drilling, Subsidence Investigation
	Fairmont (Tibbs) Subsidence	Fairmont	Drilling, Subsidence Investigation
	Farmington (Tassone) Subsidence	Farmington	Drilling, Subsidence Investigation
3	Fairmont (Morgan) Subsidence	Fairmont	Drilling, Subsidence Investigation
	Farmington (Knoble) Subsidence	Farmington	Drilling, Subsidence Investigation
	Shinnston (Bell) Subsidence	Shinnston	Drilling, Subsidence Investigation
7	Zickefoose Burning Refuse	Marion Co.	Subsurface Investigation for In-house Design
	Thomas (D. Bacco) Subsidence	Thomas	Drilling, Subsidence Investigation
	Thomas (Nelson) Subsidence	Thomas	Drilling, Subsidence Investigation
	Thomas (Shoemaker) Subsidence	Thomas	Drilling, Subsidence Investigation
	Thomas (Nelson) Subsidence	Thomas	Drilling, Subsidence Investigation
	Fairmont (St. Joseph) Subsidence	Fairmont	Emergency, Subsidence Investigation

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED		
_	Thomas (Lambert) Subsidence	Thomas	Drilling, Subsidence Investigation		
	Left Fork of Little Sandy Reclamation	Preston Co.	Investigation, Design, Portals, Drainage, AMD, Re-grade		
	Demarco Mine Drainage	Monongalia Co.	Subsurface Investigation for In-house Design		
	Summit Park (Seftick) Slide	Clarksburg	Investigation and Design, Slopes, Drainage, Deep Mine		
	Thomas (Stanley) Subsidence	Thomas	Drilling, Subsidence Investigation		
	Morgantown (Horrell) Subsidence	Morgantown	Drilling, Subsidence Investigation		
4	Morgantown (Malone Subsidence	Morgantown	Drilling, Subsidence Investigation		
	Core (Swiger) Subsidence	Core	Drilling, Subsidence Investigation		
	Shinnston (Brown) Landslide	Shinnston	Subsurface Investigation for In-house Design		
	Delmar Complex	Monongalia Co	Subsurface Investigation for In-house Design		
u	Morgantown (McVickers) Subsidence	Morgantown	Drilling, Subsidence Investigation		
	Moundsville (Marling) Subsidence	Moundsville	Drilling, Subsidence Investigation		
	Wheeling (Tridigo) Subsidence	Wheeling	Drilling, Subsidence Investigation		
	Barrickville (Vennis) Subsidence	Barrickville	Drilling, Subsidence Investigation		
	Clarksburg (Ray) Subsidence	Clarksburg	Drilling, Subsidence Investigation		
	Fairmont (Toothman) Subsidence	Fairmont	Drilling, Subsidence Investigation		
	Grant Town (Haller) Subsidence	Grant Town	Drilling, Subsidence Investigation		
	Monongah (Dumas) Subsidence	Monongah	Drilling, Subsidence Investigation		

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED		
	Chauncey (Vance) Drainage	Logan Co.	Drilling, Surveying, Engineering		
	Skin Creek Refuse Pile	Wyoming Co.	Surveying & Mapping, CADD		
	Riffe Branch Impoundment	Raleigh Co.	Surveying & Mapping, CADD		
4	Holden (Paggett) Landslide	Holden	Drilling, Surveying, Engineering		
	Sycamore Camp Subsidence	Holden	Drilling, Engineering		
	Gerath Landslide	Weston	Surveying & Mapping, CADD		
	Carswell Hollow Design	McDowell Co.	Drilling, Engineering, CADD		
	Spruce Laurel Fork	Clothier	Drilling, Surveying, Engineering		
u	Red Jacket Refuse	Mingo Co.	Subsurface Investigation		
J	Nitro (Taylor) Landslide	Nitro	Drilling, Engineering		
	Georges Creek (Holmes) Landslide	Rand	Drilling, Engineering		
	Dog Hollow AML	Boone Co.	Drilling & Sampling		
	Adkins Drainage	Boone Co.	Drilling & Sampling, Geologic Investigation		
	Rumble (Smith) Drainage	Rumble	Drilling, Engineering, Geologic Investigation		
	MacArthur AML	Raleigh Co.	Drilling & Sampling		
	Chief Logan AMD	Logan Co.	Drilling, Surveying, Design, Engineering		
0	Davis Creek Emergency AML	Kanawha Co.	Drilling, Surveying, Design, Engineering		
	Holden Drainage	Holden	Drilling, Engineering		
	Bloomingrose (Milam) Drainage	Bloomingrose	Drilling, Surveying, Engineering		
	Webster (Jerryville) AML	Webster Co.	Drilling & Sampling		
	Thompson Gas Complaint	Williamson	Drilling & Sampling		
	Glasgow Subsidence	Glasgow	Drilling, Subsidence Investigation		
	AML Surveying & Mapping	Various	Surveying & Mapping, CADD		
	Wheeling (Upper Stroch) Subsidence	Wheeling	Drilling, Subsidence Investigation		

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
	Clarksburg (Post) Subsidence	Clarksburg	Drilling, Subsidence Investigation
	Thomas United Methodist Church	Thomas	Drilling, Subsidence Investigation
	Bridge Run Refuse	Upshur Co.	Geotechnical Investigation & Evaluation
4	Kanes Creek South	Preston Co.	Reclamation Design
	Riffe Refuse Pile	Raleigh Co.	Drilling & Sampling, Temperature Probes
	Turkey Gap Burning Refuse	Oak Hill	Surveying & Mapping, CADD
	Hotcoal Mine Dump	Raleigh Co.	Surveying & Mapping, CADD
	Laurel Creek Subdivision Subsidence	Raleigh Co.	Surveying & Mapping, CADD
u	Kelly's Creek Burning Refuse	Kanawha Co.	Drilling & Sampling
	WV Tech Tennis Courts	Montgomery	Drilling, Surveying, Engineering
	Holden (Alshire) AML Slide	Holden	Drilling, Surveying, Engineering
	Ragland (Kirk) Subsidence	Ragland	Drilling, Subsidence Investigation
U	Beckley Exhibition Coal Mine	Beckley	Surveying & Mapping, CADD
	Kilsyth Drainage	Kilsyth	Drilling, Surveying, Engineering, Design
	Borderland Portals	Mingo Co.	Drilling & Sampling, Piezometer Installation
	Dille-Widen Feasibility Study	Clay Co.	Engineering, Geology, Hydrology
	Mullens Water Feasibility Study	Mullens	Engineering, Geology, Hydrology
3	Mileground Stabilization	Morgantown	Stabilization Investigation & Design
	Tunnelton Mine Drainage	Tunnelton	AMD Drainage Investigation
	AML Surveying and Mapping	Various	Surveying & Mapping, CADD
	Brown Street Drainage	Marshall Co.	AMD Drainage Design
	Davis (Warren) Subsidence	Davis	Drilling, Subsidence Investigation
	Turkey Run III	Upshur Co.	Drainage/Landslide Investigation
	Benwood Refuse	Marshall Co.	Refuse Investigation

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
_	Shinnston (Wentz) Subsidence	Shinnston	Drilling, Subsidence Investigation
2	Kingwood 52/6 Project	Kingwood	Water Line Feasibility Study
	Van Burning Refuse	Van	Drilling & Sampling, Temperature Probes
0	Witcher Creek (Evans) Portals	Kanawha Co.	Surveying & Mapping, CADD
U	Newton (Hatfield) Landslide	Mingo Co.	Surveying & Mapping, CADD
0	Northfork Refuse Pile	McDowell Co.	Surveying & Mapping, CADD
U	Red Jacket Portal	Mingo Co.	Surveying & Mapping, CADD
	Matoka (WV Rt. 10) Subsidence	Matoka	Drilling & Sampling, Geologic Investigation
0	Montgomery (Grey) Landslide	Montgomery	Drilling & Sampling, Geologic Investigation
U	Davis Water Tanks	Davis	Subsidence Investigation, Drilling
	Kingsville Water Line	Kingsville	Water Line Feasibility Study
	AML Surveying & Mapping	Various	Surveying & Mapping, CADD
0	Horner Run Portal, Highwall &	Harrison Co.	Portal, Highwall & Landslide Investigation, Remediation Design
2	Landslide	ļ.,	1
	Clarksburg Landslide	Clarksburg	Landslide Investigation and Evaluation
	North 8 th Street Refuse & Portals	Warwood	Design, Re-grade & Drainage
U	Livengood Highwall & AMD	Preston Co.	Design, Re-grade & Drainage
•	Layton Mine Drainage	Harrison Co.	Drainage, Slope Investigation
U	Rocklick (Blethem) Drainage	Minden	Drilling & Sampling, Geologic Investigation
	Leslie (Nelson) Drainage	Greenbrier Co.	Surveying & Mapping, CADD
4	Mullins Mine Drainage	Mingo Co.	Drilling & Sampling
	North Matewan (Gooslin) Landslide	Matewan	Drilling, Surveying, Engineering
	Helen Mine Drainage	Raleigh Co.	Drilling, Surveying, Engineering
	Newton (Hatfield) Landslide	Mingo Co.	Drilling, Surveying, Engineering
	Prong Fork (Hughart) Landslide	Kanawha Co.	Drilling, Surveying, Engineering

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED	
_	Mullens (McNeely) Landslide	Mullens	Drilling, Surveying, Engineering	
2	Mullens (Dixon) Landslide	Mullens	Drilling, Surveying, Engineering	
	Easly Refuse Pile	Boone Co.	Drilling, Surveying, Engineering	
0	AML Surveying & Mapping	Various	Surveying & Mapping, CADD	
U	Philip Thorn Highwall	Preston Co.	Design, Re-grade, & Drainage	
$\mathbf{\Omega}$	Sandy Creek Waterline	Taylor Co.	Waterline Feasibility Study	
0	Davis Waterline Extension	Davis	Waterline Feasibility Study	
_	Dayton Park AML	Philippi	Drainage/Portal Investigation	
1	Stillhouse Run Refuse	Barbour Co.	Design, Drainage & Refuse Re-grade	
	Bethlehem (Sinclair) Subsidence	Wheeling	Drilling, Subsidence Investigation	
	Blaser Highwall	Preston Co.	Design, AMD, Re-grade & Drainage	
	Cross Street	Warwood	Drainage Investigation	
	Lundale (Dickerson) Drainage	Logan Co.	Surveying & Mapping, CADD	
2	Ned's Branch Refuse	Mingo Co.	Surveying & Mapping, CADD	
	Wheatley Branch (Gooden) Landslide	Logan Co.	Drilling & Sampling, Engineering	
0	Squire Landslide	McDowell Co.	Drilling & Sampling, Piezometer Installation, Engineering	
U	County Route 27 Landslide	Mt. Hope	Drilling & Sampling, Engineering	
	Delbarton (Curry) Landslide	Delbarton	Drilling & Sampling, Engineering	
0	Sugar Branch Burning Refuse	Logan Co.	Drilling & Sampling, Geologic Investigation	
	Thacker Subsidence	Crab Orchard	Drilling & Sampling, Subsidence Investigation	
2	AML Surveying & Mapping	Various	Surveying & Mapping, CADD	
	Rosemont Highwall & Portals 2	Barbour Co.	Design, Re-grade & Drainage	
	Clarksburg (Bailey) Mine Drainage	Clarksburg	Drainage Investigation	
	Morgantown Airport Subsidence II	Morgantown	Drilling & Sampling, Subsidence Investigation	

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
	Thomas (Wolfe Welding) Subsidence	Tucker Co.	Drilling & Sampling, Subsidence Investigation
	Duffy Street/Van Rufus Subsidence	Shinnston	Reclamation Design
	Brownton Landslide	Barbour Co.	Reclamation Design
	Clarksburg (A. Davis) Subsidence	Clarksburg	Drilling & Sampling, Subsidence Investigation
	Mt. Clare (Strader) Landslide	Harrison Co.	Drilling & Sampling, Subsidence Investigation
	White Park Bus Garage PCB Site	Monongalia Co.	Environmental Investigation
U	White Park	Monongalia Co.	Environmental Investigation
	Collins Ferry Road B.P. Station	Monongalia Co.	Drilling & Sampling
3	Bull Run Emergency Drilling	Preston Co.	Drilling & Sampling
	Enterprise (Swiger) Subsidence	Harrison Co.	Drilling & Sampling, Subsidence Investigation
	Saul's Run Strip and Slide	Lewis Co.	Landslide Investigation, Drilling & Sampling, Engineering
	Whitehair Landslide	Monongalia Co.	Landslide Investigation, Drilling & Sampling, Engineering
	Ragland (Caudill) Subsidence	Mingo Co.	Drilling & Sampling, Subsidence Investigation
	WVU Tech Drainage	Montgomery	Design, Drilling & Sampling, Piezometer Installation, Surveying & Mapping, Portals, Re-grade, Dewatering
2	Ring Hollow (Meadows) Portals	Hernshaw	Drilling & Sampling, Piezometer Installation
	Coal Hollow Refuse "A"	Putnam Co.	Design, Refuse, Re-grade, Portals
	DNR Office Subsidence	Beckley	Drilling & Sampling, Subsidence Investigation
()	Alspaugh Landslide	Mount Hope	Drilling & Sampling, Geologic Investigation
	Mon County (Rockley Road)	Monongalia Co.	Drilling & Sampling, Geotechnical Investigation
	Long Run (Adkins) Landslide	Taylor Co.	Landslide & Subsidence Investigation, Drilling & Sampling
U	Hawkins AMD	Lambert Run	AMD/Reclamation
4	Jimtown Tipple	Harrison Co.	Subsurface Investigation, Slide Repair
4	Ven Runs Landslide Maintenance	Lewis Co.	Subsurface Investigation, Slide Repair

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YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
	Blankenship Subsidence	Beckley	Drilling & Sampling, Subsidence Investigation
	Mabscott (Houck) Subsidence	Mabscott	Drilling & Sampling, Subsidence Investigation
	Spicer Subsidence	Maidsville	Drilling & Sampling, Subsidence Investigation
	Everettsville Burning Refuse	Monongalia Co.	Drilling, Geotechnical Investigation
	Union Prong (Carpenter) LS Project	Kanawha Co.	Drilling & Sampling, Piezometer Installation, Well Abandonment
0	Rawl (Pigman) Portals	Mingo Co.	Drilling & Sampling, Piezometer Installation
	Whitman (Williams) Drainage	Logan Co.	Drilling & Sampling, Piezometer Installation
n	Varney (Justice) Drainage	Mingo Co.	Drilling & Sampling, Piezometer Installation
	Brounland (Holstein) Drainage	Kanawha Co.	Drilling & Sampling, Piezometer Installation
5	Musick (Brewer) Subsidence	Mingo Co.	Drilling & Sampling, Subsidence Investigation
5	Elk Creek Portals	Mingo Co.	Design, Surveying & Mapping, Portals, Re-grade, Section 404
THRU			Permit, Demolition of Structures
111110	Chapmanville (Henry) Portals/Lake	Logan Co.	Drilling & Sampling, Piezometer Installation
2	(Winkler) LS/Stone Branch (Adkins		
	LS 1/Mud Fork (Baisden)		
0	Rumble (Stevens) Refuse & Portals	Boone Co.	Design, Surveying & Mapping, Portals, Re-grade, Section 404
U			Permit, Demolition of Structures
•	Campbells Creek (Miller) Drainage	Kanawha Co.	Drilling & Sampling, Piezometer Installation
0	Rich Fork (Spells) Portals	Kanawha Co.	Drilling & Sampling, Piezometer Installation
_	Mullens Portals	Wyoming Co.	Design, Drilling & Sampling, Piezometer Installation, Surveying &
9		1	Mapping, Portals, Re-grade, Dewatering
	Belington Portals & Drainage	Barbour Co.	Design, Drilling & Sampling, Piezometer Installation, Surveying &
			Mapping, Portals, Re-grade, Dewatering
	Beckley (St. John's) Subsidence	Raleigh Co.	Drilling & Sampling, Mining Determination

St. Albans, West Virginia Page 21

YEAR	PROJECT NAME	LOCATION	SERVICES PROVIDED
	Chauncey (Miller) Drainage	Logan Co., WV	Drilling & Sampling, Mining Determination
	Morris Creek (Jackson) Drainage	Fayette Co., WV	Drilling & Sampling, Mining Determination
	Coaldale Refuse	Fayette Co., WV	Full Civil Design and Permitting Services
2	Richardson Branch Complex	Raleigh Co., WV	Full Civil Design and Permitting Services
	Dingess Street Emergency Drainage	Logan County, WV	Drilling & Sampling and Full Civil Design
0	Keystone Emergency Drainage	McDowell Co., WV	Drilling & Sampling and Full Civil Design
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OUR SERVICES

- Civil Engineering
- Geotechnical Engineering
- Environmental Services
- Survey and Mapping
- Landscape Architecture

- → Mine Permitting
- Construction Monitoring
- Drilling and Sampling
- Laboratory Testing





OFFICES

PENNSYLVANIA

125 Hartman Road Suite C Greensburg, PA 15601 (724) 832-9870

MARYLAND

1075-D Sherman Avenue Hagerstown, MD 21740 (301) 797-6400

VIRGINIA

200 Aviation Drive Winchester, VA 22602 (540) 667-9300

21641 Beaumeade Circle Suite 300 Ashburn, VA 20147 (703) 729-3456

WEST VIRGINIA

219 Hartman Run Road Morgantown, WV 26505 (304) 296-2562

4980 Teays Valley Road Scott Depot, WV 25560 (304) 755-0721

OHIO

1005 East State Street Suite 2 Athens, Ohio 45701 (740) 249-4304



RFQ No. DEP 16154.

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. 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.

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.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"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.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (*W. Va. Code* §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

Vendor's Name: TRIBENIES. INC. Authorized Signature: Date: 1/16/2014 State of West Virginia County of Putnam, to-wit: Taken, subscribed, and sworn to before me this day of January .2014. My Commission expires March 10 .2019. AFFIX SEAL HERE NOTARY PUBLIC Och Le & Down

Official Seal
Notary Public, State of West Virginia
Parnela E. Dosier
105 Valley Bend
Scott Depot, WV 25560
My Commission Expires March 10, 2019

WITNESS THE FOLLOWING SIGNATURE:

Purchasing Affidavit (Revised 07/01/2012)

CERTIFICATION AND SIGNATURE PAGE

By signing below, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

(Company) (Authorized Signature)	ERING, Z	WC.	
(Representative Name, Title)		DEVELOPM	ent Leader
304.755.0721	304.75	5.1880	
(Phone Number)	(Fax Number)	Martin Committee	
1/16/2014			

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: DEP16454

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

	Numbers Received: ox next to each addendum rece	ived)			
	Addendum No. 1		Addendum 1	No. 6	
	Addendum No. 2		Addendum ?	No. 7	
	Addendum No. 3		Addendum 1	No. 8	
	Addendum No. 4		Addendum No	0. 9	
	Addendum No. 5		Addendum N	o. 10	
further unders discussion hel	hat failure to confirm the receistand that any verbal represental between Vendor's representations and added to the	ation mad atives an	de or assumed t d any state pers	o be made during sonnel is not bind	any oral
		TRI	40 ENG	NEEZING	, Ich
		1	43	Company	
		,/,	1200	Authorized Signa	ature
		///	6/2014	Date	

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

Revised 10/02/2013

PROJECT	Exp. Basis C=Corp. P=Personal *	Additional Info Provided in Section (s)	PROJECT EXPERIENCE REQUIREMENTS														PARTICIPATION/CAPACITY *** M=Management P=Professional					
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Re	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Lee McCoy, P.E.	James. R. "Bo" Criniti	Amanda Sutphin	Danny Lipscomb, PE	Steven A Clark, PS
Morris Creek Drainage	С			X	X	Х					Х	X	Х	Х	Х	Х	X	P/M		Р		М
WVU Tech Drainage	С			Х	Х	Х			X	X	Χ	X	Х	X			X	P/M		Р		М
Coal Hollow Refuse "A"	С			Х	Х	Х					Х	X	Х	Х		Х	X			Р		P/M
Dille-Widen Water Feasibility	С											X										
Mullens Water Feasibility	С											Х										
Logan AMD	С				X	X				X	Х	X		X	X		Х					P/M
Elk Creek Portals	С			X	Х	Х					Х	X	Х	Х				P/M	Р			Р
Rumble (Stevens) Refuse & Portals	С		X	X	X	X					X	X	X		X		X	P/M	Р			P
Mullens Portals	С		Х	Х	Х	Х					X	Х	X	Х	X	Х	X	P/M	Р			P
Belington Portals & Drainage	С		X	X	X	X					X	X	X	X		X	X	P/M	Р			Р
Coaldale Refuse	С		X	Х	Х	X					X	Х	Х					P/M	Р			P
Richardson Branch Complex	С		X	X	X	X					Х	X	X	X				P/M	P		Р	Р

^{*} List whether project experience is corporate or personnel based or both.

^{**} Use this area to provide specific sections or pages if needed for reference.

^{***} List Primary Design personnel and their functional capacity for the projects listed.