

# TERRADON CORPORATION

Engineering Planning Surveying

ORIGINAL

## Expression of Interest

Presented To:

West Virginia Department of  
Environmental Protection  
Office of special reclamation  
105 S. Railroad Street  
Philippi, WV 25416-9998

Attn: Mr. Frank Whittaker, Senior Buyer  
Acquisitions Unit, WV Purchasing Division  
for the WVDEP

**RFQ DEP 16157**

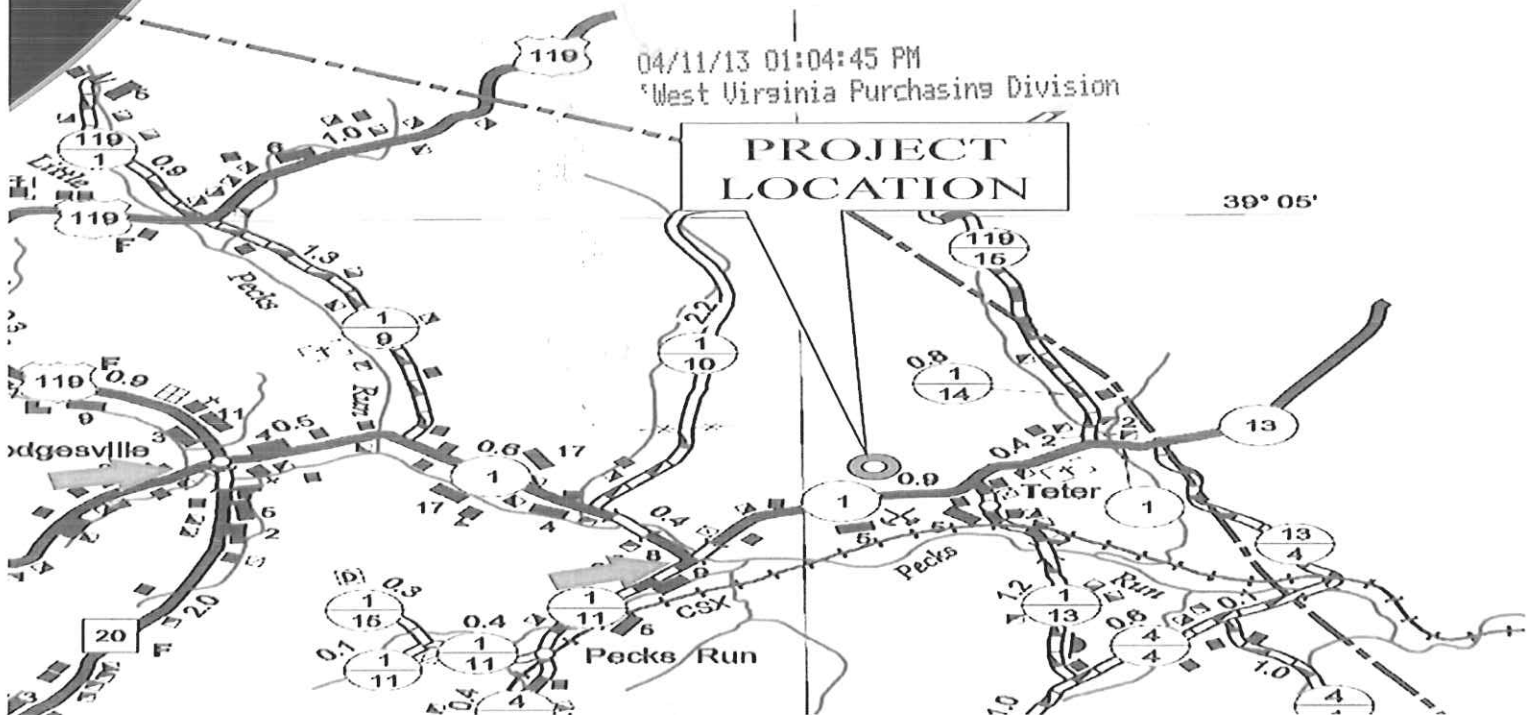
**Professional Mapping and Design  
services at the bond forfeited  
Permits of Cheyenne Sales CO.**

A Proposal for Professional Mapping  
& Design Services at the bond forfeited  
Permits of Cheyenne Sales Company Inc.

April 11, 2013

Submitted By:

TERRADON Corporation  
401 Jacobson Drive  
Poca, WV 25159  
304-755-8291  
terraddon.com





TERRADON CORPORATION  
P.O. Box 519  
Nitro, WV 25143  
Tel: 304-755-8291  
Fax: 304-755-2636  
www.terraddon.com

TERRADON CORPORATION  
PO Box 1635  
Lewisburg, WV 24901  
Tel: 304-645-4636  
Fax: 304-645-7614  
www.terraddon.com

April 11, 2013

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Acquisitions Unit, WV Purchasing Division  
for the West Virginia Department of Environmental Protection  
Office of special reclamation  
105 S. Railroad Street  
Philippi, WV 25416-9998

Subject: Expression of Interest  
DEP16157 Multiple Permits Design

Mr. Whittaker:

TERRADON is pleased to provide you with the following Expression of Interest to provide professional Mapping and Design services to the WV Department of Environmental Protection, Office of special Reclamation (WVDEP/OSR) for the DEP16157 the Bond Forfeited Permits of Cheyenne Sales Company Inc.

TERRADON has a long-standing history of providing quality design and construction services to the WVDEP/OSR. Our diverse staff can provide complete services for any issue that may be included in this project. TERRADON welcomes the opportunity this project offers.

I look forward to an opportunity to interview for this project, and hope to be the State's preferred consultant. Should you have any questions regarding the submittal or TERRADON, please do not hesitate to contact me at 304-755-8291.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Wheeler", is written over a light blue horizontal line.

Ryan Wheeler  
TERRADON Corporation



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

**Solicitation**

NUMBER
DEP16157

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER 304-558-2316

VENDOR

RFQ COPY  
 TYPE NAME/ADDRESS HERE

TERRADON CORPORATION  
 P.O. Box 519  
 Nitro, WV 25143

SHIP TO

ENVIRONMENTAL PROTECTION  
 DEPT. OF  
 OFFICE OF SPECIAL RECLAMATION  
 105 S. RAILROAD STREET  
 PHILIPPI, WV  
 26416-9998 304-457-3219

DATE PRINTED
03/07/2013

BID OPENING DATE: 04/11/2013

BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-29		
	MULTIPLE PERMITS			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 MAPPING AND DESIGN SERVICES AT THE BOND FORFEITED PERMITS OF CHEYENNE SALES COMPANY INC. 0-11-83, S-2009-96 AND 0-2025-86 IN UPSHUR COUNTY, WEST VIRGINIA PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.		
				***** THIS IS THE END OF RFQ DEP16157 ***** TOTAL:		

ORIGINAL

SIGNATURE <i>Muhammed U. Riaz</i>	TELEPHONE 304-729-9125	DATE 4/11/13
TITLE President	FEIN 55-0687626	ADDRESS CHANGES TO BE NOTED ABOVE

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

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.

Terradon Corporation

(Company)

Muhammad U. Riaz

(Authorized Signature)

Muhammad U. Riaz, President

(Representative Name, Title)

304-755-8291

(Phone Number)

304-755-2636

(Fax Number)

04/11/2013

(Date)

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.:** DEP16157

**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.

**Addendum Numbers Received:**

(Check the box next to each addendum received)

- |   |  |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6  |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8  |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9  |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Terradon Corporation

\_\_\_\_\_  
Company

*Muhammad U. Riaz*  
\_\_\_\_\_  
Authorized Signature

Authorized Signature

04/11/2013  
\_\_\_\_\_  
Date

Date

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

**TERRADON**  
CORPORATION

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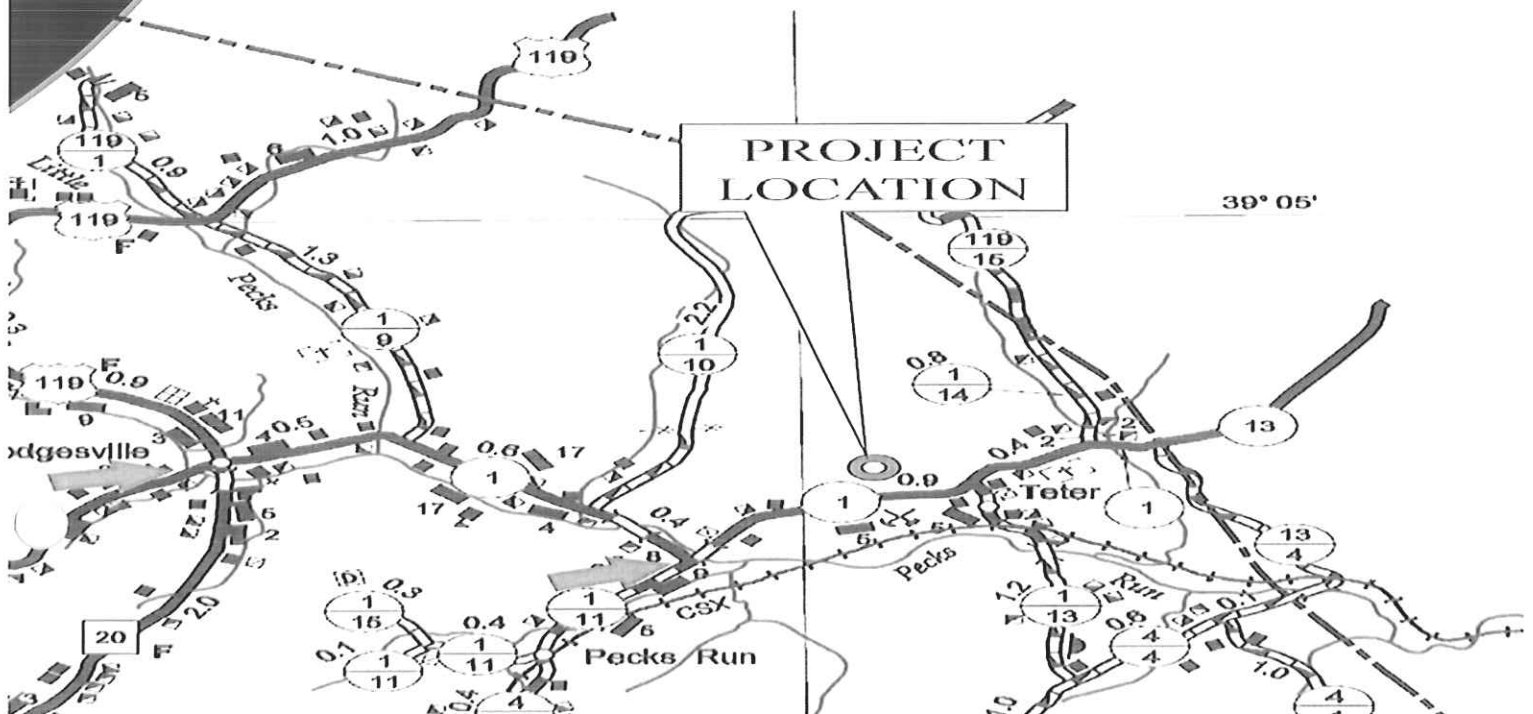
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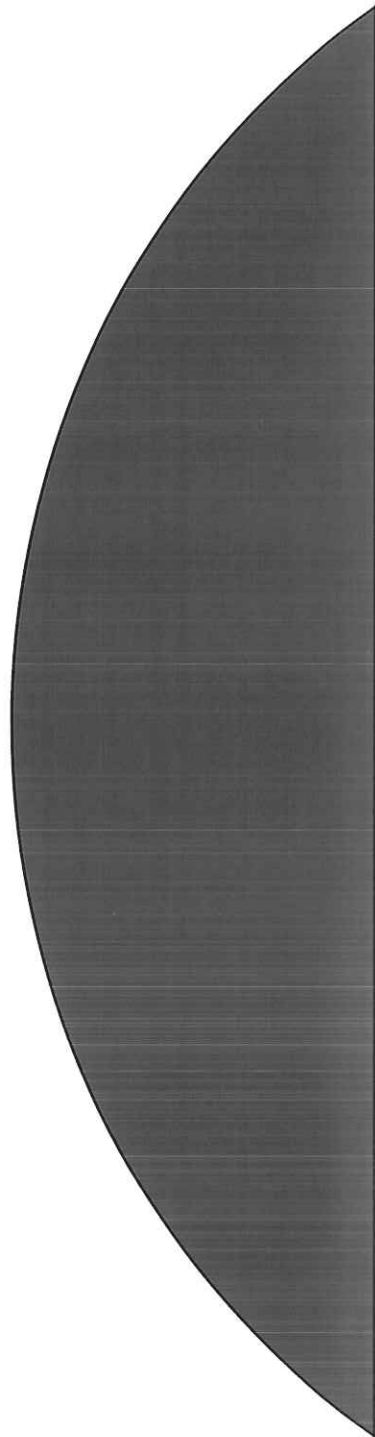




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# Corporate Overview







# Corporate Overview

TERRADON Corporation offers a multi-faceted approach to design engineering and consulting services. For more than 20 years TERRADON staff have provided a wealth of engineering solutions blanketing West Virginia and the Appalachian region with successful projects. The company built its reputation on expert personnel and quality, time-sensitive service. Those same founding principles hold true today.

Staff includes engineers, landscape architects, surveyors, planners, environmental scientists, designers, technicians and LEED Accredited Professionals.

## Service Offerings Include:

- Land planning & site design
- Surveying & Mapping
- Civil Engineering
- Geotechnical investigations
- Materials testing & construction monitoring
- Environmental
- Roadway & Bridge Design
- Energy services

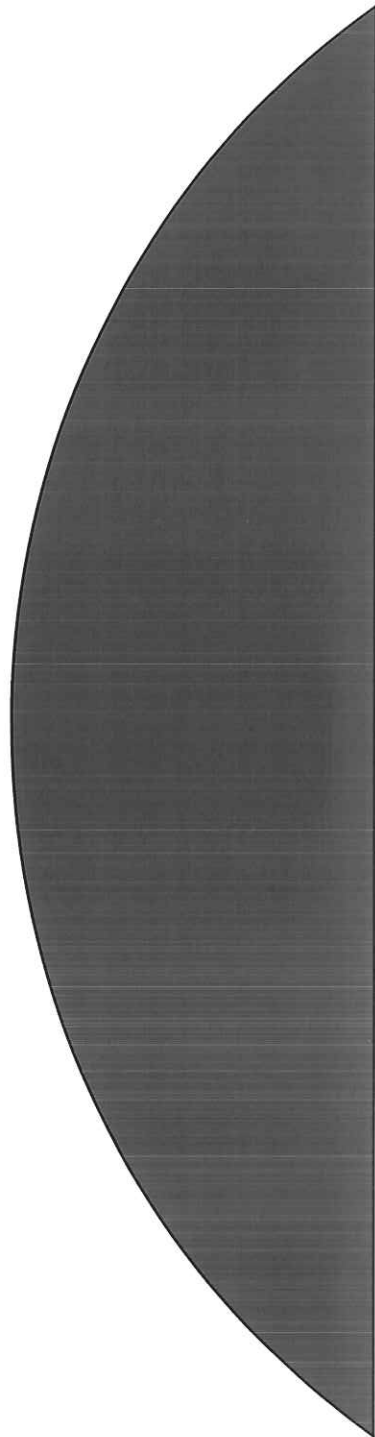
The family-owned business has built its strong reputation by providing flexible, cost effective design solutions and maintaining the highest level of customer service. The firm has been recognized through numerous awards from professional organizations and agencies for excellence in engineering.

TERRADON is particularly suited to design engineering within the mountainous areas of West Virginia and the Appalachian Region. The firm has been recognized through numerous awards from professional organizations and agencies including the West Virginia Division of Highways, Department of Environmental Protection and the West Virginia Chapter of American Institute of Architects.

TERRADON maintains approximately 52 leading-edge staff selected to service particular client needs. Its offices sustain customers through a wide-range of engineering offerings. Seven departments work cohesively to provide turn-key solutions that strive to exceed client expectations.

TERRADON's corporate culture promotes innovation and progressive thinking. Its employees understand the purpose behind their services and work to cultivate lasting relationships with clients through honest, hard work.

# Qualifications and Experience

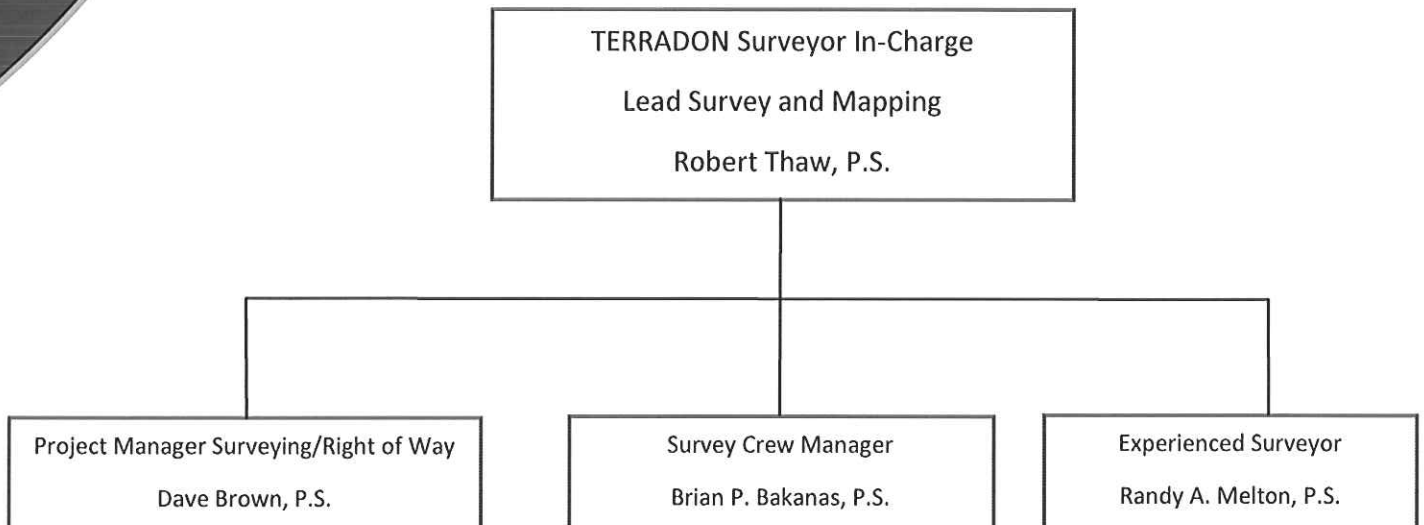


# Qualifications and Experience

TERRADON personnel have a wealth of experience providing survey services to various clients. The following personnel are located in TERRADON's Poca, West Virginia headquarters. Each is licensed in West Virginia and available on an as-need basis. Resumes for the individuals below are included in this proposal.

- **Robert Thaw, P.S.**  
As TERRADON's Survey Department Head, Thaw has more than 24 years of survey industry experience.
- **Dave Brown, P.S.**  
TERRADON's Right-of-Way Surveyor has more than 14 years of experience.
- **Brian Bakanas, P.S.**  
Mr. Bakanas is a land surveying party chief responsible for electronic data collection in the field and subsequently analyzing and plotting the field data in the office.
- **Randy Melton, P.S.**  
Melton serves as a Senior Project Manager for TERRADON Corporation. Melton is responsible for all TERRADON survey equipment and practice management.

## Proposed Staffing Plan



# Key Personnel Resumes

Mr. Thaw is Manager of Surveying Services for TERRADON. He organizes and supervises survey crews; designs commercial sites for drainage, building site locations, parking and utility easements; reviews project plans; and creates base mapping. Mr. Thaw has more than 22 years of experience in a wide range of land surveying applications. He is experienced with the day-to-day operation of the business and management of personnel.

**Relevant Project Experience**

» **Hillsville Bypass, 2008**

Mr. Thaw coordinated office and field crews and reviewed the data for: cross sections, grade stakes and quantities. The Hillsville Bypass project had four million yards of material to be excavated. The project duration was 1.5 years. Both conventional and GPS equipment was utilized layout. Trimble 5800 base receivers and repeaters were transmitting corrections the two rover units.

» **Fairmont Connector 2009**

Mr. Thaw coordinated the office and field crews for the Fairmont Interchange Connector. The project included demolition of buildings, sidewalks construction, MSE walls, bike path, and bridges. Gps and total stations are currently being utilized on the project. Mr. Thaw supervises the control work, grade stakes, slope staking, and office computations.

» **Paden City Water Service Study, Paden City, WV**

Terradon was a subcontractor responsible for complete water service as-built. The project consisted of approximately 13 miles of water line to be mapped and cataloged. Responsible for all survey aspects and mapping

» **Underground Utility As-Built for all of Southridge Centre, Dudley Plaza, Trace Fork, and Nitro Market Place**

As-built of all underground utilities including storm sewer. The scope included horizontal location, vertical location, and connectivity. The all underground information was compiled, reconciled, and shown in tabular form in AutoCAD. Responsible for all survey aspects and mapping.

» **Martinsburg Drainage Study, Martinsburg, WV**

TERRADON Corporation was contracted by WVDOH to perform a drainage study for the City of Martinsburg, WV. The project involved the development of a comprehensive drainage study comparing pre and post development conditions. TERRADON performed aerial photography, mapping, right-of-way and as-built storm sewer system as part of the contract. Responsible for coordination aerial mapping, GPS control, field location and AutoCAD mapping.

**Education**

B.A., Survey Technology  
1981, West Virginia Institute  
of Technology

B.S., Surveying, 1985, West  
Virginia Institute of  
Technology

**Work Experience**

Terradon Corporation  
1994-Present

Bowman Land Surveying  
1992-1994

Dunn Engineers  
1990-1992

Kelley Gidley Blair and Wolf  
1988-1990

Pierson & Whitman  
Architects and Engineers  
1984-1986

**Registration**

Professional Surveyor, West  
Virginia

# Brian P. Bakanas, P.S.

## Survey Crew Manager

Mr. Bakanas' responsibilities include managing survey crews, finding boundary solution, courthouse research, survey data reduction, and construction stakeout data preparation.

### Education

A.S. Land Surveying  
Glennville State College

### Work Experience

1995 – Present  
TERRADON Corporation

1991-1994  
Dunn Engineers, Inc.

1988-1991  
Czop/Spector, Inc

1986-1988  
V & I Associates

### Registration

Professional Surveyor  
West Virginia

Professional Surveyor  
Pennsylvania

### Relevant Project Experience

- » **Ford Electronics Facility**  
Construction - Dublin Twp, Pennsylvania. Stakeout for site grades, roads, storm and sanitary sewers, and detention basins.
- » **Rorer Pharmaceutical Plant**  
Collegetown, Pennsylvania, Stakeout horizontal vertical control, and column lines.
- » **Chief Logan State Park Dam Project**  
Logan, West Virginia. Stakeout dam, riser, road and parking lots, and clearing limits. Electronic data collection of road, dam, and borrow area sections. Analysis and plotting of field data.
- » **Hansford AML Reclamation**  
Surface Mines - West Virginia. Electronic data collection of sections on slide and reclamation of slide.
- » **Smithers, West Virginia**  
Appalachian Mining Permits, Topographic and G.P.S. survey of roads, ponds, and gas well locations.
- » **Monsanto Armour Creek Site,-Nitro, WV**  
Site Assessment - Horizontal/Vertical S/O and location of monitoring wells at landfill. Topographic survey for drainage assessment.
- » **U.S. Route 9 upgrade**  
Right of Way monumentation, courthouse research, R/W Questionnaire.

## Dave Brown, P.S.

### Project Manager Surveying/Right of Way

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Since joining TERRADON in 1999, Dave Brown has been involved in highway design/right of way projects and many surveying projects in West Virginia and surrounding states. Mr. Brown is responsible for conducting and or supervising ALTA/ACSM surveys, boundary surveys, GPS surveys, control surveys, topographical surveys, highway right of way projects, and detailed site/utility surveys, for various geotechnical, environmental and civil projects.

#### Relevant Project Experience

Mr. Brown's responsibilities include survey project management, GPS networks, control surveys, development of highway right of way plans, boundary solutions, reports, courthouse research, drafting, construction staking, survey data reduction, and preparation of surveying cost estimates and proposals.

- The Summit Bechtel Reserve- Glen Jean, WV
- Black Diamond Subdivision(1656 Acres)-Craig County, VA
- John Amos Plant Industrial Landfill Bill's Creek, Putnam County, WV
- Beech Ridge Wind Tower Project-Greenbrier County, WV
- WVDOH Corridor L Right of Way Project-Summersville, WV
- Allegheny Energy Pleasants County Power Station ALTA Survey, St. Mary's , WV
- The Woodlands Subdivision- Summersville, WV
- Liberty Square Boundary/Topographic
- Utility Survey- Winfield, WV

#### Education

B. S Engineering  
Technology/Surveying  
West Virginia Institute of  
Technology

#### Work Experience

1999 to Present

TERRADON Corporation  
(Professional Surveyor)

1997 - 1999

Trans-Ash  
(Project Engineer)

1997 - 1997

Summit Engineering  
(Draftsman/Design)

1996 - 1997

USGS  
(Hydrologic Technician)

#### Registration

Professional Engineer in  
West Virginia, Tennessee

# Randy A. Melton, P.S.

Hydrographic Surveyor, & Project Manager

## Relevant Project Experience

A partial listing of completed Heavy Civil Construction projects in responsible charge of Field Engineering either as an employee of the Prime Contractor or as a subconsultant includes:

- The Natchez Trace Parkway Bridge, PCL Civil Construction, Franklin, TN. Subcontractor responsible for QA / QC of the contract documents, original control surveys, sections, and crane access road design.

## Education

A.S. Land Surveying - 1979  
Glenville State College

AutoCADD for Professional 1989  
Construction Academy, Dania, FL

Trimble Navigation Limited, RTK,  
GP Survey, and Least Squares  
Training—1995

## Work Experience

2010 – Present  
TERRADON Corporation

2009-2010  
Precision Laser & Instrument, Inc.

1995-2009  
GPS Innovations, Inc.

1994-1995  
TERRADON Corporation

1991-1994  
Bowman Land Surveying  
Company, Inc.

1990-1991  
PCL Civil

- A \$28 million dollar commercial seawall facility including 900,000 yards dredging, 4,600 LF of bulkhead, 500 foot long pier, and 2,740 LF of crane runway space. Southport Bulkhead Facility, Field Engineer, PCL Civil, Port Everglades, FL.

- A 121 million dollar contract, Pck. DEF and V Highway Interchange, Harbert/Westbrook, Ft. Lauderdale, FL. Managed survey department responsible for stakeout of 22 bridges under simultaneous construction.

- A 22 million dollar bridge contract, Glade Creek Bridge, Westbrook Construction, Beckley, WV. Responsible for all survey layout computations, concrete quality control testing, quantity reports, and safety. Quality Control & Field Engineering.

- I-64 Highway Projects 343, 345, & 355. Responsibilities included the daily supervision of subcontracted survey crews, preparation of detailed structure drawings, supervision of end dam installation, final deck grade calculations, revision of earthwork quantity summaries, and subgrade calculations. Additionally assigned the task of initiating a computerized system for the preparation of quarterly cost projections and daily cost analysis reports. Green Construction, Office Engineer, Green Sulphur Springs, WV.

As a Professional Surveyor employed by various consultants, assigned responsibilities include daily supervision of survey crew, bid preparation, project management, retracement surveys, field work, calculation, courthouse research, and mapping. Some specific projects include:

- Owned and managed a Sub-Chapter S Corporation with annual sales volume exceeding \$220 K. Bowman Surveying provided professional surveying and mapping services over the entire eastern United States.
- Manage all field surveying for Kanawha Stone Construction Company including technical support, training, and quantity reports for up to five survey crews. 1994 volume of construction, greater than 14 million.



**Relevant Project Experience**

- Peabody Coal Company - Extensive horizontal and vertical control for geological exploration.
- WVDNR Abandoned Mine Lands Reclamation Program - Horizontal and vertical control of approximately 50,000 acres for photogrammetric mapping.
- SCS Upper Mud River Watershed Control Project- floodplain elevations and parcel take points.
- RTK System setup and training for Chicago Bridge and Iron, LIGO Project, Hanaford, WA.
- RTK System setup and training for Gilbert Southern, Ashville, NC for roadway construction.
- RTK System setup and training for Catenary Coal Co., Cabin Creek, WV.
- RTK System setup and training for Coal Mac Coal Co., Pikeville, KY.
- RTK System setup and training for Braham & Baker Coal Co., Prestonsburg, KY.

**GNSS / HYDROGRAPHIC SURVEY EXPERIENCE**

- USACE IHNC Surge Barrier, a 695 Million Dollar Design Build Project awarded to Shaw Group to protect the city of New Orleans, LA. I Designed, fabricated, and commissioned a 66” Concrete Pile Driving System for the TMW Joint Venture, LLC Summer, 2009. Traylor Brothers, Massman, and Weeks Marine.
- Designed, fabricated, and commissioned a fully wireless WIFI enabled GNSS Guidance System for the LNG Terminal Facility near Saint Johns, New Brunswick, Canada for the KWS Joint Venture, Summers of 2007 and 2008. A 120 million design build privately funded development project.
- US Army Corps of Engineers, Poplar Island Restoration Project, Chesapeake Bay, Maryland.
- Chief Hydrographic Surveyor of Record, Keiwit Construction, Summer, 1998
- USACE Huntington District, Survey Division Support and Training, Paul Dean, Manager.
- Multiple Technology Upgrades spanning ten years of direct survey technology upgrades, support, and training of the USACE Huntington District Survey Team.
- Designed, fabricated, and commissioned the RTK GPS System for the Chesapeake Bay Bridge Parallel Crossing, Virginia Beach, VA for PCL, Hardaway, and Interbeton, A Joint Venture. This 197 Million dollar construction contract utilized RTK GPS in all facets of construction survey layout and as built. Including a portable system for temporary mounting in any boat for hydrographic surveys.
- RTK System setup and training for Misener Marine, Ponce, Puerto Rico, Sewage Outfall Pipeline. Including a hydrographic survey boat and dredge setup.

**Affiliations**

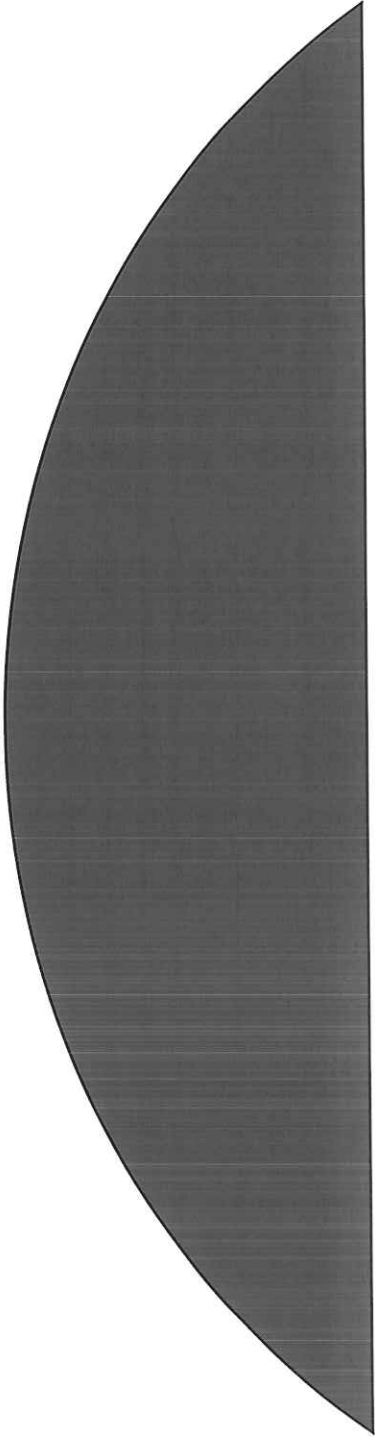
West Virginia Association of Professional Surveyors  
Member

Charleston Chapter of Professional Surveyors  
Member

**Certifications**

Professional Surveyor  
West Virginia

# Relevant Project Examples



# Relevant Project Examples

## Volcano Island Waterpark/Fairmont Coke Works

**Location:** Fairmont, WV  
**Project Date:** 2008  
**Client Name:** City of Fairmont  
**Address:** 200 Jackson Street  
Fairmont, WV 26554  
**Phone:** 304.366.6211  
**Contact:** Jay Rodgers, City Manager

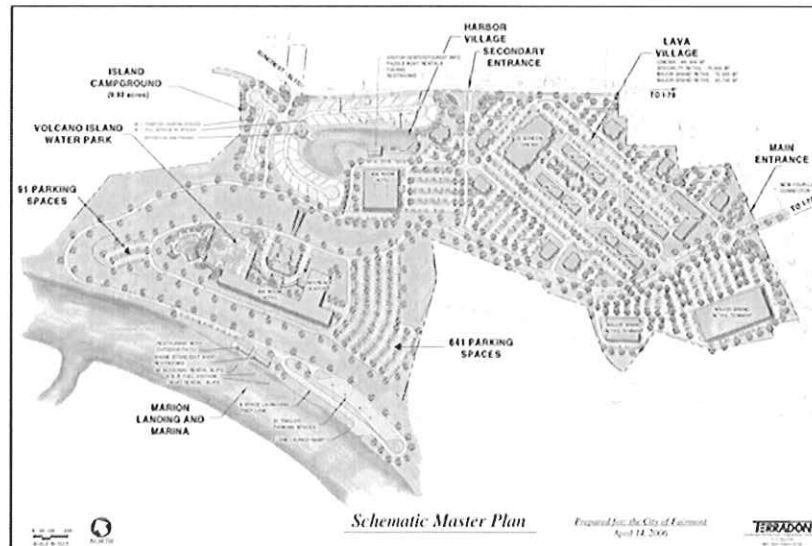
### Project Description:

TERRADON Corporation performed utility investigation at the Fairmont Coke Works and the surrounding areas, totaling approximately 350 acres of utility location and mapping work. The site was mapped utilizing aerial photography. TERRADON field edited aerial mapping and identified and surveyed all underground utilities. TERRADON's 40-hour HAZWOPER trained surveyors were required to wear Level B Personal Protective Equipment while working in certain areas of the site.

The utility information was presented in tabular format on AutoCAD drawings.

Additionally, TERRADON designers provided master planning services to the City of Fairmont for the Volcano Island Water Park and surrounding areas.

The EPA superfund site was nearly two decades in the making as various cleanup efforts took place.



*The Master Plan at left was developed by TERRADON Corporation as part of the Volcano Island Waterpark/Fairmont Coke Works project in Fairmont, West Virginia.*

*TERRADON's Survey Department performed the utility location and mapping work for the 350-acre site.*

# Relevant Project Examples

## Garden Ground Highwalls Phase 1

**Location:** Fayette County, WV  
**Project Date:** 2011  
**Client Name:** WV DEP  
**Address:** 601 57th Street SE  
Charleston, WV 25304  
**Phone:** 304-926-0499

### Project Description:

TERRADON Corporation performed as-built surveys on Garden Ground Highwalls Phase 1 to mesh with original ground base mapping. The updated surface was used for road and other design features. The survey covered approximately 35,000 +/- linear feet of reclamation.

## Charleston Relocation Housing

**Location:** Charleston, WV  
**Client Name:** Alan Ives Construction Company  
**Address:** 10 South La Salle Street  
Suite 3440, Chicago, IL 60603  
**Phone:** 312.580.0085  
**Contact:** Paul Gotta, Project Director

### Project Description:

TERRADON has performed detailed underground surveys for nine (9) Charleston Relocation Housing projects, including:

- Orchard Manor
- Little Page Terrace
- Washington Manor
- KVSS

The surveys included all aboveground features and all underground utilities. The City of Charleston historical records were utilized extensively to reconcile the underground utilities. While the project was under construction, TERRADON survey crews were available to locate any underground utility that the excavation by construction crews discovered. Detailed mapping was geo referenced in AutoCAD format.

# Relevant Project Examples

## Tucker County Landfill

**Location:** Tucker County, WV  
**Client Name:** Tucker County Solid Waste Authority  
**Address:** P.O. Box 445  
Davis, WV 26260  
**Contact:** Rella Cvetican  
**Phone:** 304.259.4867

### Project Description:

TERRADON Corporation performed surveying, mapping, subsurface investigation, groundwater study, monitoring, cell design, and construction observation for the extension of Cell 5 of the Tucker County West Virginia Landfill.

Services included the performance of surveying & mapping, subsurface investigation and groundwater study, monitoring, cell design, major modification to permits, and Certificate of Need application for a six-acre cell (Cell 6).

TERRADON is currently performing a new cell design, closure plan, groundwater statistical report, leachate management, QA/QC services, leachate pond repair & upgrade, stormwater ponds, subsurface investigation, and Certificate of Need (CON) application for a 20-acre cell (Cell 7).



# Relevant Project Examples

## Dow Tech Park: Kanawha Valley CTC

**Location:** Charleston, WV  
**Client Name:** West Virginia High Education Policy Commission  
**Address:** 1018 Kanawha Boulevard, East,  
Charleston, WV 25301  
**Contact:** Jim Skidmore

### Project Description:

TERRADON performed a survey on the proposed Kanawha Valley CTC site located at the DOW Tech Park. The survey included two parcels totaling approximate 20 acres. An underground utility investigation was performed utilizing existing mapping and utility sketches for the Tech Park.

Part of the storm water investigations was to reconcile the fresh water storm system that discharged into the Kanawha River and the storm water system that discharged into the South Charleston PSD treatment facility. Detailed mapping was prepared for the sites showing all underground utility locations and geo referenced.

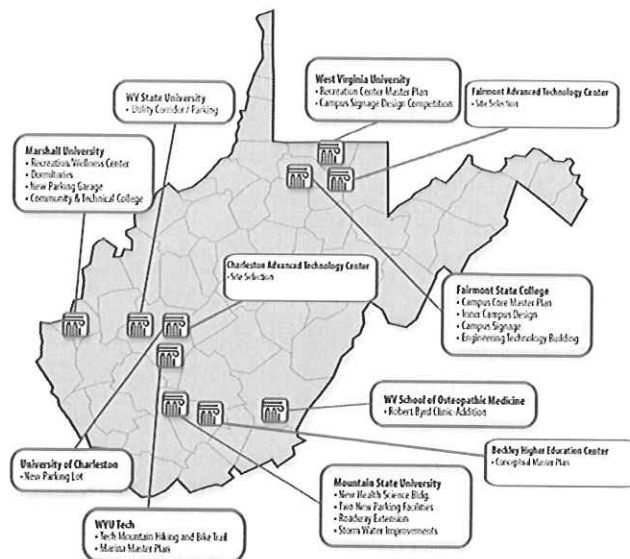
TERRADON routinely provides survey services on complicated educational site throughout West Virginia. TERRADON has performed more than 100 projects on K-12, secondary education, and higher education facilities in West Virginia.

### Related RFP Criteria:

- HTRW
- Deformation Monitoring
- Topographic Survey
- Collection of Digital Data

### TERRADON Survey Key Staff & Roles:

- Robert Thaw, PS – Project Manager
- Brian Bakanas, PS – Crew Manager
- Dave Brown, PS – Survey Coordinator



# Relevant Project Examples

## Commercial Property Survey Services

**Location:** Kanawha County, WV  
**Project Date:** Ongoing  
**Client Name:** THF Reality  
**Address:** 2127 Innerbelt Business Center Drive  
Suite 200, St. Louis, MO 63114  
**Phone:** 304-744-8100  
**Contact:** Sharon Werner

### Project Description:

TERRADON Corporation performed surveying & mapping services, and continues to perform deformation monitoring services for some of the largest commercial reality properties in West Virginia.

As part of its contract, TERRADON performed initial surveys, including boundary, topographic and utility location surveys for the Southridge Shopping Center, the Shoppes at Trace Fork, and Dudley Plaza – all located in South Charleston, WV. Additionally, TERRADON performed those same services for Nitro Market Place in Cross Lanes, WV.

TERRADON continues to provide deformation monitoring on those properties on an annual basis Monitoring vertical and horizontal movement of buildings, and of fill areas by establishing monuments inside and outside the fill areas along with crack monitors inside of buildings at varies locations.

### Related RFP Criteria:

- Deformation Monitoring
- Topographic Survey
- Route Surveys
- Collection of Digital Data

### TERRADON Survey Key Staff & Roles:

- Robert Thaw, PS – Project Manager
- Brian Bakanas, PS – Crew Manager
- Dave Brown, PS – Survey Coordinator

# Relevant Project Examples

## Black Diamond Ranch

**Location:** Craig County, VA  
**Client Name:** Hunter Company of WV  
**Address:** 471 B&O Overpass Road, Hedgesville, WV 25427  
**Contact:** Brad Hoffmaster II  
**Phone:** 304.262.2770

### Project Description:

TERRADON Corporation provided surveying services on a large development in Craig County, VA.

TERRADON performed a GPS static network and placed aerial mapping target control for aerial mapping for the 1700 acre residential subdivision project, which included roadway and utility design and construction layout.

Black Diamond Ranch is surrounded on 3 sides by National Forest with 3.5 miles of Streams running through the property. TERRADON coordinated all survey services with appropriate federal and state government authorities during the project.

## Chemtura Superfund Site

**Location:** Morgantown , WV  
**Client Name:** Arcadis, U.S., Inc.  
**Address:** 630 Plaza Drive, Suite 600  
Highlands Ranch, CO 80129  
**Phone:** 720. 344.3500  
**Contact:** Hillary Evanko

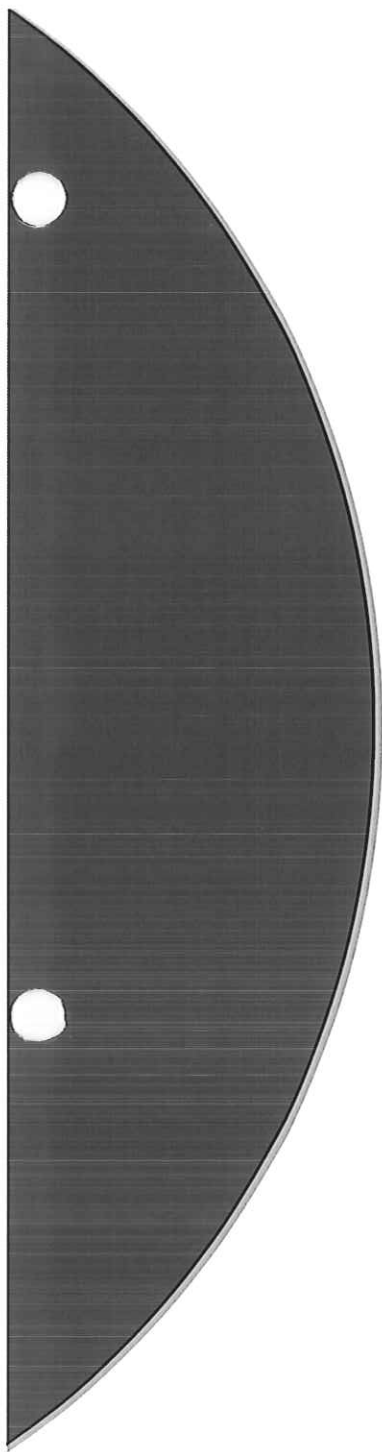
### Project Description:

TERRADON Corporation continues to perform survey and monitoring services for the Chemtura Chemical Superfund Site in Morgantown, WV.

The project consists of TERRADON surveyors providing continuous location and mapping services on an as-needed basis. The project calls for boundary survey, topographic survey, and the location of monitoring wells, and borings on the site.



## References



# References

## **Volcano Island Waterpark/Fairmont Coke Works**

304.366.6211

Contact: Jay Rodgers, City Manager

## **Charleston Relocation Housing**

312.580.0085

Contact: Paul Gotta, Project Director

## **Tucker County Landfill**

304.259.4867

Contact: Rella Cvetican

## **Commercial Property Survey Services**

304.744.8100

Contact: Sharon Werner

## **Black Diamond Ranch**

304.262.2770

Contact: Brad Hoffmaster II

## **Chemtura Superfund Site**

720.344.3500

Contact: Hillary Evanko, Project Manager

# OSR Consultant Confidential Qualification Questionnaire

TERRADON has a completed copy of its Consultant Confidential Qualification Questionnaire (CCQQ) dated January 2013 on file with WVDOT. Additional copies may be provided upon request.

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

Attachment "B"

PROJECT NAME Bond Forfeited Permits of Cheyenne Sales CO.		DATE (DAY, MONTH, YEAR) April 11, 2013	FEIN 55-0687626
1. FIRM NAME TERRADON Corporation		2. HOME OFFICE BUSINESS ADDRESS 401 Jacobson Drive, Poca, WV 25159	3. FORMER FIRM NAME
4. HOME OFFICE TELEPHONE (304) 755-8291	5. ESTABLISHED (YEAR) 1989	6. TYPE OWNERSHIP Individual <input type="checkbox"/> Corporation <input checked="" type="checkbox"/> Partnership <input type="checkbox"/> Joint-Venture <input type="checkbox"/>	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE 401 Jacobson Drive, Poca, WV 25159/ (304) 755-8291 / Muhammad Riaz, P.E., President/ 40 persons			
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Muhammad Riaz, P.E., President Virginia L. King, CEO		8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS	
9. PERSONNEL BY DISCIPLINE			
10 ADMINISTRATIVE	— ECOLOGISTS	3 LANDSCAPE ARCHITECTS	1 STRUCTURAL ENGINEERS
— ARCHITECTS	— ECONOMISTS	— MECHANICAL ENGINEERS	5 SURVEYORS
— BIOLOGIST	— ELECTRICAL ENGINEERS	— MINING ENGINEERS	1 TRAFFIC ENGINEERS
3 CADD OPERATORS	3 ENVIRONMENTALISTS	— PHOTOGRAMMETRISTS	41 OTHER
— CHEMICAL ENGINEERS	— ESTIMATORS	2 PLANNERS: URBAN/REGIONAL	
5 CIVIL ENGINEERS	1 GEOLOGISTS	2 SANITARY ENGINEERS	
3 CONSTRUCTION INSPECTORS	— HISTORIANS	2 SOILS ENGINEERS	
4 DESIGNERS	2 HYDROLOGISTS	— SPECIFICATION WRITERS	60 TOTAL PERSONNEL
— DRAFTSMEN			
<p>TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 7</p> <p>*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.</p>			
10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? <input type="checkbox"/> YES <input type="checkbox"/> NO			

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

NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No

12. A. Are your firm's personnel experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?

YES Description and Number of Projects: 50 Projects for WVDEP/AML&R

NO

B. Are your firm's personnel experienced in Soil Analysis?

YES Description and Number of Projects: 35 WVDEP/AML&R projects included some soil analysis. TERRADON provides geotechnical engineering on a wide variety of projects, including dams, highways, bridges, etc.

NO

C. Are your firm's personnel experienced in hydrology and hydraulics?

YES Description and Number of Projects: 35 WVDEP/AML&R projects included hydrology and hydraulics.

NO

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

YES Description and Number of Projects: \_\_\_\_\_

NO We routinely provide photo control surveys and field edit the mapping provided.

E. Are your firm's personnel experienced in domestic waterline design? (Include any experience in evaluation of aquifer degradation as a result of mining.)

YES Description and Number of Projects: 9 WVDEP/AML&R projects included the evaluation of aquifer degradation as a result of mining. Four of those projects have been designed and constructed. TERRADON has also designed

NO hundreds of miles of waterline in the last 5 years.

F. Are your firm's personnel experienced in Acid Mine Drainage Evaluation and Abatement Design?

YES Description and Number of Projects: 5 WVDEP/AML&R projects included acid mine drainage evaluation and abatement. In addition, TERRADON was 1 of only 2 firms evaluating and designing AMD abatement of special

NO reclamation projects in 1992, 1993 and 1994.

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
James, John W. P.E. Senior Geotechnical Engineer	11	33	9

Brief Explanation of Responsibilities

Geotechnical Project Manager for TERRADON Corporation. Responsible for contract administration and project management; peer review of design, construction drawings and specifications; constructability review and construction cost estimates.

EDUCATION (Degree, Year, Specialization)

B.S., 1968; Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers (Past President, WV Section)

REGISTRATION (Type, Year, State)

P.E., 1973, WV

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Saunders, William "Joe", P.E.	2	21	21

Brief Explanation of Responsibilities

Primary Project Manager for and Engineer. Responsible for project oversight and overall delivery. Will be design engineer for all elements of the project and ensure compliance with all local, state and federal requirements.

EDUCATION (Degree, Year, Specialization)

B.S., 1998, Civil Engineering, West Virginia Institute of Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

ACEWV

~~P.E., 2001, West Virginia P.E., 2005, North Carolina~~  
REGISTRATION (Type, Year, State)

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Gerencir, William Senior CAD Designer	20	23	20

Brief Explanation of Responsibilities

Mr. Gerencir is responsible for CAD design, including site layout, grading, stream alignments. Plan, cross section, and detail sheet preparation. Quantity Takeoffs, Calculation Briefs and additional design related tasks.

EDUCATION (Degree, Year, Specialization)

A.S., 1989, Civil/Surveying Engineering Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

N/A

REGISTRATION (Type, Year, State)

N/A

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brown, David A., P.S. Professional Surveyor	9	15	7

Brief Explanation of Responsibilities

Responsible for all aspects of surveying, including photogrammetry control, if required, field editing of mapping, topographic mapping, establishment of survey control monuments and establishing base lines for construction layout and quantity measurement. Also, tax map overlays and detailed property clarifications.

EDUCATION (Degree, Year, Specialization)

B.S., 1996, Engineering Technology

West Virginia Association of Land Surveyors

P.S., 2003, WV P.S., 2008, TN

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)



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

Software:	Autodesk 2010 Civil 3D
	SedCad 4 - Erosion Control and Hydrology Software
	Haested Method Flowmaster Software for Channel Design
	Haested Method - Water CADD (Pipe Network Analysis)
	Slope Stability -
	PC Stable
	REAME
	SBSLOPE
	WinStable and WinStable 2003
	Piling Walls, Anchors and Reinforced Earth Walls -
	Lpile
	HeliCAP
	Anchor 400
	KeyWall 2004
	TR 55, TR 20, TR 66 (Sites) - Hydrology
	Hec-1, Hec HMS 2.22, HEC R As 3.1.2 - Hydrology
	LC 58 + RP 61 - Structural (wall)
	Microstation V8
Surveying Equipment:	Trimble 4700 modular, RTK Global Positioning Total Station
	Trimble Geomatics Office Software
	Topcon Total Stations (3)
	SMI Data Collectors (3)
Printing/Plotting/Reproduction:	HP DesignJet T1120
	HP DesignJet 1050C Plotter (2)
	HP LaserJet 8000 Printer (2)
	HP Color LaserJet 3700
	HP Color LaserJet 5500
	Sharp AR-550 Copier/Printer (2)
	Sharp AR-C150 Full Color Copier/Printer
	Oce 7056 Engineering-Size Copier

15. PRESENT ACTIVITIES ON WHICH YOU ARE THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Manila Ridge Extension Engineering Poca, WV	Putnam County Commission 3389 Winfield Road Winfield, WV 25213	104,000.00	100%
Manila Ridge Extension Inspection Poca, WV	Putnam County Commission 3389 Winfield Road Winfield, WV 25213	90,000.00	0%
WV Air National Guard Design/Inspection Charleston, WV	WV American Water Shared Services Center P.O. Box 5609 Cherry Hill, New Jersey 08034	201,615.00	98%
Lilbern Pritt Highwall Design Junior, WV	WVDEP/AML&R 601 57th Street SE Charleston, WV 25304	141,855.00	70%
Mallory (Gibson) Portals Design Mallory, WV	WVDEP/AML&R 601 57th Street SE Charleston, WV 25304	70,844.00	95%
Montgomery 6th Ave. Pump Station Montgomery, WV	Sanitary Board Of Montgomery 706 Third Avenue Montgomery, WV 25136	162,200.00	0%
Ham Sanitary Landfill - Peterstown WV	HAM Sanitary Landfill P.O. Box 576 Peterstown, WV 24963	157,500.00	80%
Northern Wayne County PSD Engineering Wayne, WV	Northern Wayne County PSD P.O. Box 775 Lavallette, WV 25535	29,500.00	80%
Upper Glade Creek Dam Improvements	Beckley Water Company Po Box 2400 Beckley, WV 25802-2400	35,000.00	85%
TOTAL NUMBER OF PROJECTS: 9		TOTAL ESTIMATED CONSTRUCTION COSTS: \$	

16. PRESENT ACTIVITIES ON WHICH YOU ARE ASSOCIATED WITH OTHERS

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
Project Arrow Glen Jean, WV	Utility Design	Trinity Works, LLC 411 Main Street Suite 210 Mount Hope, WV 25880			889,250.00
Project Arrow Glen Jean, WV	Summit Center Utilities Design	Trinity Works, LLC 411 Main Street Suite 210 Mount Hope, WV 25880			55,000.00
Project Arrow Glen Jean, WV	Construction Phase Engineering Services	Trinity Works, LLC 411 Main Street Suite 210 Mount Hope, WV 25880			285,000.00
Project Arrow Glen Jean, WV	AT&T Cell Tower Conduit	Trinity Works, LLC 411 Main Street Suite 210 Mount Hope, WV 25880			55,000.00
Moorefield High School Moorefield, WV	Site Design	Williamson Shriver Architects 717 Bigley Avenue Charleston, WV 25302	2014		1,000,000.00
East Hardy High School	Site Design	Williamson Shriver Architects 717 Bigley Avenue Charleston, WV 25302	2014		1,000,000.00
Fairmont Office Building	Site Design	OMNI Associates 1543 Fairmont Avenue Suite 201 Fairmont, WV 26554	2014		1,500,000.00
Advanced Technology - Advantage Valley South Charleston, WV	Site Design	E.T. Boggess 101 Rockledge Avenue Princeton, WV 24740	2014	15,000,000.00	1,000,000.00
WV Northern ATC	Site Design	E.T. Boggess 101 Rockledge Avenue Princeton, WV 24740	2014	15,000,000.00	1,000,000.00

17. COMPLETED WORK WITHIN LAST 10 YEARS ON WHICH YOU WERE THE DESIGNATED ENGINEER OF RECORD				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Diana Extension Webster Springs, WV	WV American Water Shared Services Center P.O. Box 5609 Cherry Hill, New Jersey 08034	262,000.00	2009	Yes
Putnam County 2007 Extensions Putnam County, WV	Putnam County Commission 3389 Winfield Road Winfield, WV 25213	438,000.00	2007	Yes
Derricks Creek Ridge Extension Sissonville, WV	WV American Water Shared Services Center P.O. Box 5609 Cherry Hill, New Jersey 08034	142,000.00	2008	Yes
Montgomery WWTP Upgrade – Bidding Montgomery, WV	Sanitary Board Of Montgomery 706 Third Avenue Montgomery, WV 25136	211,000.00	2008	Yes
KCRDA 2009 Construction Phase Sissonville, WV	WV American Water Shared Services Center P.O. Box 5609 Cherry Hill, New Jersey 08034	282,000.00	2010	Yes
Pedestrian Bridge-Freyssinet Glen Jean, WV	Freyssinet, Inc. 44880 Falcon Place Suite 100 Sterling, VA 20166	210,052.95	2012	Yes
Sleethes Run Bridge Replacement Lewis County, WV	WV Division of Highways 1900 Kanawha Boulevard, East Charleston, WV 25305	284,254.00	2007	Yes
Beckley - New Roadway Beckley, WV	International Coal Group 300 Corporate Centre Drive Scott Depot, WV 25560	187,000.00	2007	Yes
City Beer Bridge on I-77 Bridge Replacement Project Wood County, West Virginia	WVDOT Building 5, Room A-110 1900 Kanawha Blvd. East Charleston WV 25305	6,000,000.00	2011	Yes
AEP-Gavin Plant Sed Pond #2 Expansion Cheshire, WV	American Electric Power 1530 Winfield Road Winfield, WV 25213	188,000.00	2011	Yes

Walgreens – Hurricane Hurricane, WV	Ed Street Company 2513 Wesley Street, Suite 4 Johnson City, TN 37601	129,000.00	2007	Yes
Black Diamond Ranch New Castle, VA	Hunter Company of WV 471 B&O Overpass Road Hedgesville, WV 25427	135,000.00	2007	Yes
Walgreens – Charleston Charleston, WV	NU Rental, LLC 2513 Wesley Street, Suite 4 Johnson City, TN 37601	136,500.00	2007	Yes
Beech Ridge Energy Design & Surveying Williamsburg, WV	White Construction, Inc. P.O. Box 249 Clinton, IN 47842	264,000.00	2009	Yes
Sarah Ann (Vance) Drainage Logan County, WV	WVDEP/AML&R 601 57 <sup>TH</sup> Street SE Charleston WV 25304	600,000.00	2009	Yes
Venus (Hamilton) Drainage AML Reclamation Design McDowell County, WV	WVDEP/AML&R 601 57 <sup>TH</sup> Street SE Charleston WV 25304	200,000.00	2011	Yes
Drews Creek Highwall AML Reclamation Design Raleigh County, WV	WVDEP/AML&R 601 57 <sup>TH</sup> Street SE Charleston WV 25304	500,000.00	2011	Yes
Kingwood Route 7 Highwall AML Reclamation Project Preston County, WV	WVDEP/AML&R 601 57 <sup>TH</sup> Street SE Charleston WV 25304	350,000.00	2011	Yes
Robinette Branch Refuse Pile AML Reclamation Design Logan County, WV	WVDEP/AML&R 601 57 <sup>TH</sup> Street SE Charleston WV 25304	814,000.00	2011	Yes
Garden Ground AML (Phase 1) AML Reclamation Design Fayette County, WV	WVDEP/AML&R 601 57th Street SE Charleston, WV 25304	573,000.00	2009	Yes
Garden Ground (Phase 2) AML Reclamation Project Fayette County, WV	WVDEP/AML&R 601 57 <sup>TH</sup> Street SE Charleston WV 25304	7,200,000.00	2009	Yes
Harris Branch Refuse Pile Design AML Reclamation Project McDowell County, WV	WVDEP/AML&R 601 57 <sup>TH</sup> Street SE Charleston WV 25304	150,000.00	2010	Yes
Shabbyroom Hollow Complex AML Reclamation Project McDowell County, WV	WVDEP/AML&R 601 57 <sup>TH</sup> Street SE Charleston WV 25304	750,000.00	2010	Yes
Gains Highwall AML Reclamation Project Harrison County, WV	WVDEP/AML&R 601 57 <sup>TH</sup> Street SE Charleston WV 25304	450,000.00	2011	Yes

18. COMPLETED WORK WITHIN LAST 10 YEARS ON WHICH YOU WERE ASSOCIATED WITH OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)					
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
WVARNG Eleanor Access Road Surveying & Roadway Design Eleanor, West Virginia	WV Army National Guard 1740 Coonskin Drive Charleston WV 25311	\$300,000	2009	Yes	Williamson Shriver Architects
Project Arrow - Shower House Utility Rev Glen Jean, WV	Trinity Works 2128 Mistletoe Boulevard Fort Worth, Texas 76110	230,000.00	2011	Yes	Arrow WV, Inc.
Project Arrow - Construction Phase Engineering Services Glen Jean, WV	Trinity Works 2128 Mistletoe Boulevard Fort Worth, Texas 76110	285,000.00	2011	Yes	Arrow WV, Inc.
Project Arrow - Logistics Center/Welcome Center Utility Design Glen Jean, WV	Trinity Works 2128 Mistletoe Boulevard Fort Worth, Texas 76110	146,800.00	2011	Yes	Arrow WV, Inc.
Pikeview Middle School Site/Civil, Survey Mercer County, West Virginia	Mercer County Public Schools 1403 Honaker Avenue Princeton, WV 24740	\$5,000,000	2009	Yes	E.T Boggess Architects
Fairmont State University Campus Improvements Fairmont, West Virginia	Fairmont State University 1201 Locust Avenue Fairmont, WV 26554	\$1,000,000	2007	Yes	Omni Associates
Moorefield Intermediate School Moorefield, West Virginia	Hardy County BOE 510 Ashby Street Moorefield, WV 26836	\$12,000,000	2008	Yes	Williamson Shriver Architects
Mountain View Elementary Scott Depot, West Virginia	Putnam County BOE Winfield, WV 25213	\$2,000,000	2008	Yes	Williamson Shriver Architects
Project Arrow - NPDES Glen Jean, WV	Trinity Works, LLC 411 Main Street Suite 210 Mount Hope, WV 25880	350,000.00	2010	Yes	Arrow WV, Inc.

Sawmill Village CD's Snowshoe, WV	Summit III, LLC 234 Seven Farms Drive Charleston, SC 29492	177,000.00	2007	Yes	Bennett Hofford Construction Company The Rice Mill Building 17 Lockwood Drive Charleston, SC 29401
Allegheny Energy - Fairmont, WV	First Energy Corp. 2800 Pottsville Pike Reading, PA 19605	159,000.00	2008	Yes	OMNI Associates
Mingo Central High - 2 Matewan, WV	Mingo County BOE Sycamore Street Williamson, WV 25661	127,000.00	2008	Yes	Williamson Shriver Architects
Jefferson Elementary Parkersburg, WV	Wood County Board of Education 1210 13th Street   Parkersburg, WV 26101	107,000.00	2008	Yes	Williamson Shriver Architects
Pikeview Middle School Princeton, WV	Mercer County Public Schools 1403 Honaker Avenue Princeton, WV 24740	114,500.00	2008	Yes	E.T. Boggess
WV GSA Office Complex Fairmont, WV	State Of West Virginia	311,612.50	2009	Yes	OMNI Associates
Greenbrier West High (LD) Charmco, WV	Greenbrier County Schools 202 Chestnut Street Lewisburg, WV 24901	267,000.00	2009	Yes	E.T. Boggess
Downtown Hotel Charleston - LD (Courtyard) Charleston, WV	Various Clients	105,000.00	2010	Yes	VIM, Inc.
Project Arrow - Mill Creek Parking Lot Glen Jean, WV	Trinity Works 2128 Mistletoe Boulevard Fort Worth, Texas 76110	108,000.00	2011	Yes	Arrow WV, Inc.

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Division of Highways.

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

PROJECT NAME, TYPE & LOCATION	NAME & ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Office of Special Reclamation.

20. The foregoing is a statement of facts

Signature: Muhammad U. Riaz Title: \_\_\_\_\_  
President

Date: 04/11/2013

Printed Name: Muhammad U. Riaz



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

PROJECT NAME, TYPE & LOCATION	NAME & ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Office of Special Reclamation.

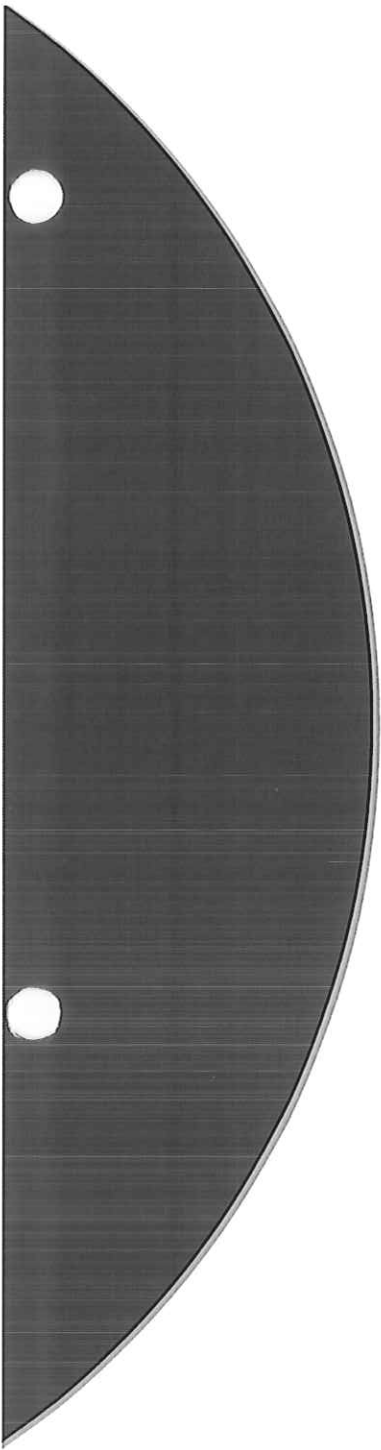
20. The foregoing is a statement of facts

Signature: Muhammed U. Riaz Title: \_\_\_\_\_  
President

Date: 04/11/2013

Printed Name: Muhammad U. Riaz

# OSR and Related Project Experience Matrix



## Professional Mapping and Design services at the bond permits of Cheyenne Sales Company Inc

TERRADON OSR and RELATED PROJECT EXPERIENCE MATRIX																						
PROJECT NAME	Exp. Basis C=Corp. P=Personal *	Additional Info Provided in Section (s) **	PROJECT EXPERIENCE													PRIMARY STAFF PARTICIPATION/CAPACITY M=Management P=Professional ***						
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Joe Saunders, PE	John James, P.E.	Bill Gerencir	Dave Brown, P.S.	Kevin Sarrett
Mallory Gibson Portals	C/P	yes						X			X				X		X	M/P	M/P	P	P	P
Roaring Creek #4	C	yes	X					X			X					X	X		P	P	P	P
Stonecoal Creek Complex	C	no		X	X	X					X				X	X	X		P	P	P	
Stonecoal Creek Complex #2	C	no		X	X	X					X				X	X	X		M/P	P		
Stonecoal Creek Complex #3	C	no		X	X	X					X				X	X	X		M/P	P		
Jenkin Jones	C	no	X	X	X	X	X				X					X	X		M/P	P	P	
Micajah Refuse Pile	C	no	X	X	X	X	X	X			X	X				X	X			P	P	
Carswell Hollow (Smith) Refuse	C	no		X		X					X				X	X				P	P	
Cedar Creek Refuse	C	no		X	X	X	X				X				X		X			P	P	
Spring Branch Burning Refuse Pile	C	no		X		X	X	X			X						X			P	P	
Grass Run Refuse (Award Winner)	C	no	X	X	X	X	X				X	X		X	X	X	X			P	P	
Black Wolfe Refuse	C	no		X	X	X	X				X	X			X	X	X			P	P	
Lower Burning Creek Refuse	C	no		X	X	X	X				X	X			X	X	X			P	P	
Morgan Run PA #2	C	no	X		X	X		X			X				X		X			P	P	P
Drews Creek "A" Highwall	C	no	X		X	X					X						X			P	P	P
Venus (Hamilton, R) Drainage	C	yes	X		X	X					X									P	P	P
Sara Ann (Vance) Drainage	C	yes	X		X	X					X			X		X				P	P	P
Garden Ground Highwall 1	C	yes	X	X	X	X					X			X		X				P	P	P
Garden Ground Highwall 2	C	yes	X	X	X	X					X			X		X				P	P	P
Harris Branch Refuse Pile	C	yes	X		X						X			X		X				P	P	P
Kingwood Rt. 7 Highwall	C	yes	X	X	X	X					X			X		X				P	P	P
Shabbyroom Hollow Complex	C	yes	X	X	X	X					X			X		X				P	P	P
Robinette Branch Refuse	C	yes	X	X	X	X					X			X		X				P	P	P
Gains Highwall	C	yes	X	X	X	X					X			X		X				P	P	P
Lillbern-Pritt	C	yes	X			X					X	X					X	M/P	P	P	P	P

\* List whether project experience is corporate or personal 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.

# Purchasing Affidavit

RFQ No. DEP 16157

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 exceeds 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.

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: Terradon Corporation

Authorized Signature: Muhammad U. Riaz Date: 04/11/2013

State of West Virginia

County of Putnam, to-wit:

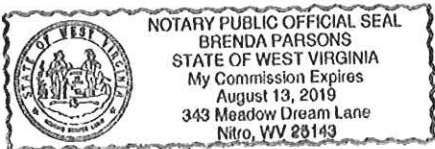
Taken, subscribed, and sworn to before me this 11 day of April, 2013.

My Commission expires August 13, 2019.

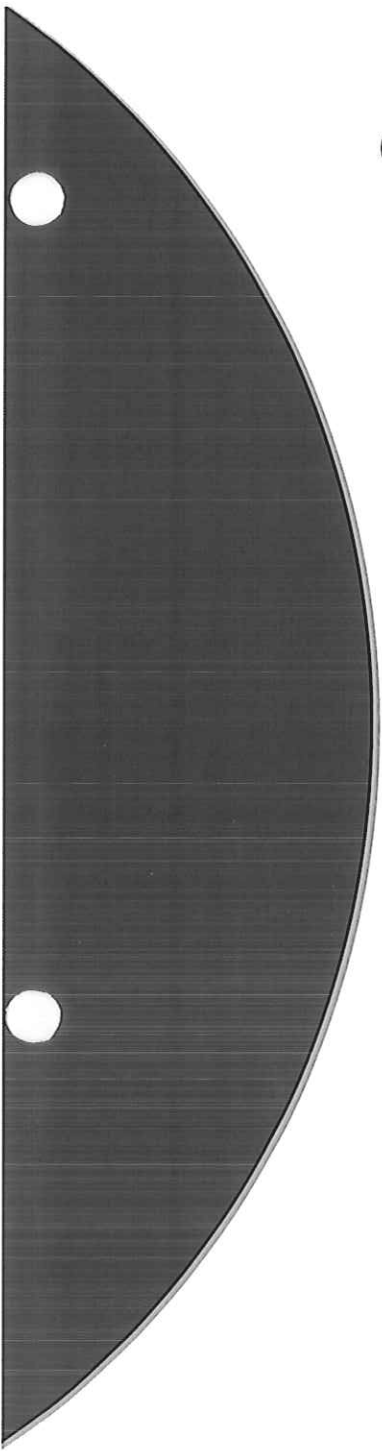
AFFIX SEAL HERE

NOTARY PUBLIC Brenda Parsons

*Purchasing Affidavit (Revised 07/01/2012)*



# Certifications



# Certifications

## CERTIFICATE OF *Authorization*

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

*The West Virginia State Board of Registration for Professional Engineers having verified the person in responsible charge is registered in West Virginia as a professional engineer for the actual firm, hereby certifies*

**TERRADON CORPORATION  
C00901-00**

Engineer in Responsible Charge: MUHAMMAD RIAZ - WVPE 014152

*has complied with section §30-13-17 of the West Virginia Code governing the issuance of a Certificate of Authorization. The Board hereby certifies you of its certification with issuance of this Certificate of Authorization for the period of:*

**July 1, 2012 - June 30, 2013**

*providing for the practice of engineering services in the State of West Virginia*

IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE,  
PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS, WEST VIRGINIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS CERTIFICATE UNDER THE SEAL AND SIGNED BY THE PRESIDENT OF THE BOARD.

STATE BOARD

WEST VIRGINIA  
BOARD OF PROFESSIONAL SURVEYORS

### *Certificate of Authorization*

ISSUED TO:

**TERRADON CORPORATION  
(Nitro, WV)**

CERTIFICATE OF AUTHORIZATION No. 13-5430

This certificate is issued by  
the West Virginia Board of Professional Surveyors  
in accordance with *West Virginia Code § 30-13A-20*

The person or organization identified on this certificate is licensed to  
conduct professional surveying and mapping services  
in the State of West Virginia for the period  
**January 1, 2013 through December 31, 2013**

This certificate is not transferrable and must be displayed at the location for which issued.

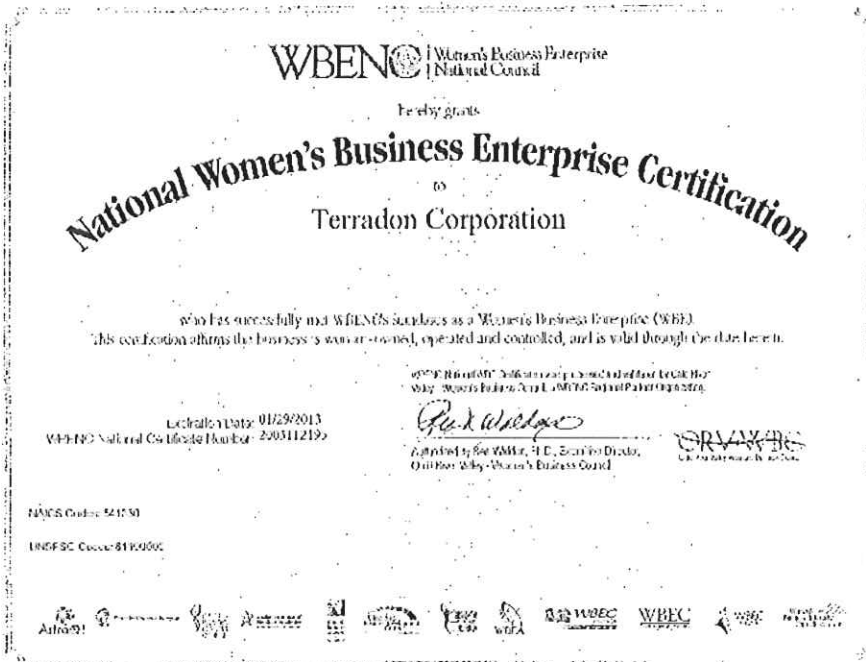
In witness whereof I have put my hand,  
this 17<sup>th</sup> day of December, 2012

*[Signature]*  
ROY E. SHREWSBURY, II, Chairman

*[Signature]*  
NELSON B. DOUGLASS, Secretary



# Certifications



TERRADON CORPORATION is a certified Women's Business Enterprise as defined by the Women's Business Enterprise National Council. TERRADON is controlled by Virginia King, who provides more than 32 years of administrative experience to the company.

The Women's Business Enterprise National Council (WBENC), founded in 1997, is the nation's leading advocate of women-owned businesses as suppliers to America's corporations. It also is the largest third-party certifier of businesses owned and operated by women in the United States. WBENC works to foster diversity in the world of commerce with programs and policies designed to expand opportunities and eliminate barriers in the marketplace for women business owners. WBENC works with representatives of corporations to encourage the utilization and expansion of supplier/vendor diversity programs.