

VENDOR

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

RFQ	COPY	
YPE	NAME/ADDRESS	HERE

TERRADON Corporation, Inc. 409 Jacobson Drive Poca, WV 25159

ORIGINAL

Solicitation

NUMBER DEP16395 PAGE 1

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 12/04/2013 BID OPENING DATE 01/07/2014 BID OPENING TIME 1:30PM CAT LINE QUANTITY UOP ITEM NUMBER UNIT PRICE **AMOUNT** 0001 **JB** 906-29 OLDHOUSE BRANCH REFUSE PILE 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 CONSTRUCTION MONITORING SERVICES AT THE OLDHOUSE BRANCH REFUSE PILE PROJECT IN WYOMING COUNTY, WEST VIRGINIA, PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS. THIS IS THE END OF RFO DEP16\$95 ***** TOTAL: 01/06/14 12:50:39PM West Virginia Purchasing Division SIGNATURE TELEPHONE 304-755-8291 304-755-2636 Kea 2 President 55-0687626 ADDRESS CHANGES TO BE NOTED ABOVE

ERRAD(

Engineering Planning Surveying

Expression of Interest for:

DEP16395 OLDHOUSE BRANCH REFUSE PILE DESIGN

Presented to: Mr. Frank Whittaker, Senior Buyer

Acquisitions Unit, WV Purchasing Division

for the West Virginia Department of Environmental Protection

Office of AML & R 601 57th Street SE Charleston, WV 25304

January 7, 2014



Charleston, WV Area P.O. Box 519 Nitro, WV 25143

Lewisburg, WV 425 North Jefferson Street P.O. Box 1635

Suite 250 Lewisburg, WV 24901 Westerville, OH 43081

Columbus, OH

167 South State Street

Fayette Co., WV PO BOX 307 Charlton Heights, WV 25040

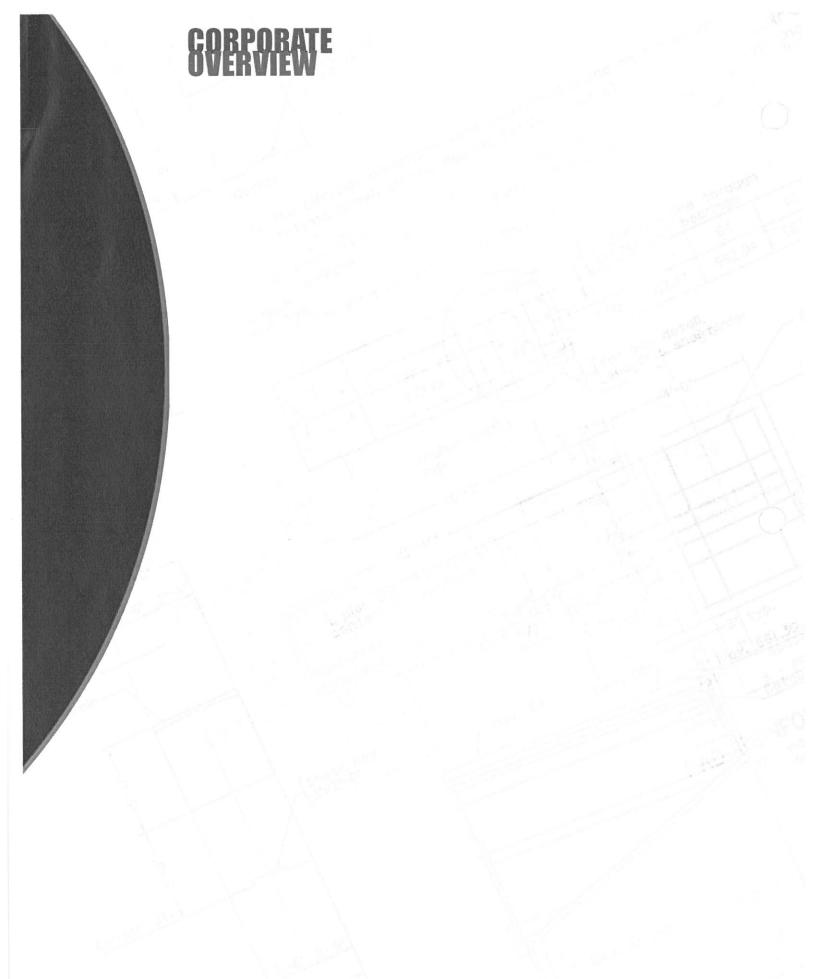
ALL LOCATIONS Phone: 304.755.8291 Fax: 304.755.2636

terradon.com



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IERRADON

CORPORATE OVERVIEW

TERRADON Corporation offers a multi-faceted approach to design engineering and consulting services. For more than 20 years TERRADON staff has 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.

The company maintains approximately 75 leading-edge staff in three locations: Nitro/Poca, WV; Lewisburg, WV; and Columbus, Ohio. TERRADON'S eight departments work cohesively to provide turn-key solutions that strive to exceed client expectations.

The family-owned business has built a strong reputation by providing flexible, cost effective design solutions and maintaining the highest level of customer service. TERRADON is particularly suited to design engineering within the mountainous areas of the Ohio Valley and Appalachian Regions. 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's corporate culture promotes innovation and progressive thinking. Project leaders strive to sustain customers through a wide-range of engineering offerings. TERRADON employees understand the purpose behind their services and work to cultivate lasting relationships with clients through honest, hard work.

SERVICE OFFERINGS

- · AML Design
- · Civil Engineering
- · Energy Services
- · Land Planning & Site Design
- Environmental/Geotechnical
- · Surveying & Mapping
- · Materials Testing & Inspection
- · Construction Monitoring
- · Roadway and Bridge Design





EXPRESSION OF INTEREST



EXPRESSION DE INTEREST

TERRADON Corporation has prepared the materials of this expression of interest in accordance with the Request for Quotation (RFQ) issued by the State of West Virginia. For convenience, the following pages are arranged in order of the evaluation criteria listed in the RFQ.

TERRADON offers a professional and experienced staff to perform the tasks required for this project. TERRADON has been responsible for all aspects of numerous successfully completed Abandoned Mine Lands (AML) projects in recent years.

TERRADON maintains seven West Virginia Registered Professional Engineers in its Primary Charleston-area office, three in its Lewisburg-based office and one in its Charleton Heights-based office.

Total number of WV Registered Professional Engineers (Civil or Mining) in the Primary Office:

- Joe Saunders, PE Project Manager/Engineer
- John James, PE Project Engineer
- Jim Nagy, PE Project Engineer
- Mike Pyles, PE Project Engineer
- Muhammad Riaz, PE* Project Engineer

Total number of WV Registered Professional Engineers (Civil or Mining) in the Lewisburg Office:

- Phil Reed, PE
 Project Manager/Engineer
- Kristen McClung, PE Project Engineer
- Andy Nutter, PE Project Engineer

Total number of WV Registered Professional Engineers (Civil or Mining) in the Charlton Heights Office:

 Will Thornton, PE Project Manager/Engineer

TERRADON also maintains one Professional Engineer and one Engineering Intern full-time in its Columbus, OH office.

*Muhammad Riaz spends approximately 50% of his time in the Charleston-Area office and 50% of his time in the Columbus, OH office.





BECLAMATION ENGINEERING DESIGN EXPERIENCE AS IT RELATES TO PROJECT PROBLEM AREAS



BECLAMATION ENGINEERING DESIGN EXPERIENCE AS IT RELATES TO PROJECT PROBLEM AREAS

TERRADON has extensive experience in both wet and dry mine seals, with or without bat gates. Our recent experience with Stonecoal Creek had more than two dozen mine seals, and Morgan Run had more than twenty as well.

In addition, TERRADON has provided regrading services on numerous refuse piles and highwalls including Jenkin Jones, Micajah, Linger, Camp Mahonegan, Cedar Creek, Roaring Creek and Morgan Run. TERRADON has also provided regrading services on Tuppers Creek, Gerath and Drews Creek Landslides. TERRADON also regraded more than 14 miles of highwall on the Garden Ground site in Fayette County.

TERRADON has experience with all facets of drainage associated with the majority of projects we have completed over the years, from acid mine drainage to basic conveyance of water from problem areas via channels, ditches and pipes. Our years of experience with AML problem areas, coupled with our quick response time to WVDEP/AML needs, makes TERRADON an excellent fit for any project.

RECENT PORTAL AND REFUSE EXPERIENCE

- MALLORY GIBSON PORTALS
- SHABBY ROOM HOLLOW COMPLEX
- GAINS HIGHWALL
- GARNER GROUNDS
- LILBURN-PRITT PORTALS
- ROARING CREEK
- MORGAN RUN PA #2
- HARRIS BRANCH
- STONECOAL CREEK COMPLEX
- DREW'S CREEK "A" HIGHWALL
- JENKIN JONES
- MACAJAH REFUSE
- CEDAR CREEK
- CARSWELL HOLLOW
- LOWER BURNING CREEK
- SARAH ANN (VANCE) DRAINAGE
- VENUS (HAMILTON) DRAINAGE
- GRASS RUN REFUSE
- SPRING BRANCH REFUSE
- BLACK WOLFE REFUSE
- ROARING CREEK
- TUPPERS CREEK
- GERATH LANDSLIDE
- NORTH VIEW MINE DRAINAGE
- HIGHLAND AVENUE
- KINGWOOD RT. 7 HIGHWALL



AVAILABLE WY AML DESIGN TEAMS





AVAILABLE WV AML DESIGN TEAMS

TERRADON Corporation maintains the following personnel available to assign to the project. All personnel listed have previous design or inspection experience on AML projects.

TERRADON engineers have numerous resources within the company to draw on, such as surveying, geotechnical engineering, environmental engineering, landscape architecture, materials testing, and construction monitoring. This allows the project manager to control all phases of the design process, from initial site reconnaissance through construction.

PROJECT MANAGER

· WIlliam Joe Saunders, PE

Project Engineers

- Joe Saunders, PE
- John James, PE
- Will Thornton, PE
- Jim Nagy, PE
- Bill Hunt, PG
- Mike Pyles, PE
- Phil Reed, PE
- Kristen McClung, PE
- Andy Nutter, PE

Engineering Technicians

Mark Clutter

CAD Designers

- · Bill Gerencir
- Kevin Garnes
- Earl Oldham

Surveyors

- Robert Thaw, PS
- · Brian Bakanas, PS
- Randy Melton, PS
- Dave Brown, PS



LOCATION



LOCATION

OFFICE WHERE THE WORK WILL TAKE PLACE

Physical Address: 409 Jacobson Drive Poca, WV 25159

Mailing Address: PO Box 519 Nitro, WV 25143

Phone: 304-755-8291 Fax: 304-755-2636 TERRADON Corporation's primary office, where the work will take place, is centrally-located in Nitro, WV, near Charleston.

TERRADON's engineering reach easily extends throughout the State in regard to physical drive times, making projects in any area of West Virginia accessible in just a matter of hours. TERRADON also maintains offices in Charlton Heights, WV, Lewisburg, WV and Westerville (Columbus Area), Ohio.

Charlton Heights, WV

Mailing Address: PO Box 307 Charlton Heights, WV 25040

Phone: 304-541-7655

Lewisburg, WV

Physical Address: 425 North Jefferson Street Lewisburg, WV 24901

Mailing Address: PO Box 1635 Lewisburg, WV 24901

Phone: 304-645-4636 Fax: 304-645-7614

Columbus. OH

Physical Address: 167 South State Street Suite 250 Westerville, OH 43081

Mailing Address: 167 South State Street Suite 250 Westerville, OH 43081

Phone: 614-392-2997 Fax: 614-392-2953



AML CONSULTANT QUALIFCATION QUESTIONNAIRE

N	WEST VIRGINIA DEPARTME AML CONSULTANT (ENT OF ENVIRONMENTAL P QUAL CATION QUESTION		ON Attachment "
PROJECTME	DATE (DAY, MON		FEIN	
OLDHOUSE BR. REFUSE PIL			55-06	687626
1. FIRM NAME	2. HOME OFFICE	E BUSINESS ADDRESS	3. FORMER	FIRM NAME
TERRADON Corporation		n Drive, Poca, WV 25159		
4. HOME OFFICE TELEPHONE	5. ESTABLISHED (YEAR)	6. TYPE OWNERSHIP Individual X orporat	L:	6a. WV REGISTERED DBE
(304) 755-8291	1989	Partnership Joint-Ve	Tenture	(Disadvantaged Business Enterprise) YES XNO
7. PRIMARY AML DESIGN OFFICE:				
		Muhammad Riaz, P.E., Presi		
8. NAMES OF PRINCIPAL OFFICER Muhammad Riaz, P.E., President		8a. NAME, TITLE, & TELE	PHONE NUMB	ER - OTHER PRINCIPALS
Virginia L. King, CEO 9. PERSONNEL BY DISCIPLINE				
VIGINIA L. KING, CEO PERSONNEL BY DISCIPLINE 10 ADMINISTRATIVE				
10. HAS THIS JOINT-VENTURE WO	RKED TOGETHER BEFORE?	□ YES □ NO		

11. OUTSIDF KEY CONSULTANTS/SUB-CONSULTAN	TS ANTICIPATED TO BE USED. Attach "AML Cor	USUTTAIL QUATITICACTOR
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NAME AND ADDRESS:	SPECIALTY:	WOKNED WITH BEFORE
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	/	Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
1		
i e		No

12.	Α.	Are y	our firm's personnel experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?
		S	Description and Number of Projects: 50 Proje
		NO	
1			
1	В.	Are	your firm's personnel experienced in Soil Analysis?
		X YES	Description and Number of Projects: 35 WVDEP/AML&R projects included some soil analysis. TERRADON
1			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?
		X YES	Description and Number of Projects: 35 WVDEP/AML&R projects included hydrology and hydraulics.
<u>. </u>			
		ио	
			District Destruction Contains Manning?
:	. D.		s your firm produce its own Aerial Photography and Develop Contour Mapping?
		YES	Description and Number of Projects:
<u>.</u>			
		Хио	We routinely provide photo control surveys and field edit the mapping provided.
	Ε.	Are	your firm's personnel experienced in domestic waterline design? (Include any experience in
		eva	luation of aquifer degradation as a result of mining.)
		XYES	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.
1 .	F.	Are	your firm's personnel experienced in Acid Mine Drainage Evaluation and Abatement Design?
		X YES	Description and Number of Projects: 5 WVDEP/AML&R projects included acid mine drainage evaluation and
		Transport Miles	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.
		. 1.0	

13. PERSONAL HISTORY STATEMENT OF PR	INCIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJECT DESIGN	(Furnish complete
data keep to essentials)		YEARS OF EXPERIENCE	
NAME & TI نصد (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC
James, John W. P.E.		EXPERIENCE:	WATERLINE DESIGN EXPERIENCE:
Senior Geotechnical Engineer	11	33	9
Brief Explanation of Responsibilitie	S		
Geotechnical Project Manager for TERF	RADON Corporation. Responsible	e for contract administration and	project management; peer
review of design, construction drawings	and specifications; constructabili	ty review and construction cost	estimates.
	•		
EDUCATION (Degree, Year, Specializat	ion)		
B.S., 1968, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZAT	TONG	REGISTRATION (Type, Year, S	tate)
100		2 	
American Society of Civil Engineers (P	ast President, WV Section)	P.E., 1973, WV	
13. PERSONAL HISTORY STATEMENT OF PRoduction of the data but keep to essentials)	RINCIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJECT DESIG	N (Furnish complete
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Gerencir, William	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESCRIENCE:	DESIGN	YEARS OF DOMESTIC WATERLINE DESIGN	
Senior CAD Designer	20	23		EXPERIENCE:	20
Brief Explanation of Responsibilities	5				1 - 1 1
Mr. Gerencir is responsible for CAD desi	gn, including site layout, grading	stream alignments. Pl	lan, cross s	ection, and detai	sneet
preparation. Quantity Takeoffs, Calculati	on Briefs and additional design r	elated tasks.			
<u> </u>		•			
EDUCATION (Degree, Year, Specializat	ion)				
A.S., 1989, Civil/Surveying Engineering	Technology				
MEMBERSHIP IN PROFESSIONAL ORGANIZAT	IONS	REGISTRATION (Type,	Year, Sta	te)	
		N/A			
N/A		IN/A			
13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	INCIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJE	CT DESIGN	(Furnish comple	ete
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data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Brown, David A., P.S. Professional Surveyor Brief Explanation of Responsibilitie Responsible for all aspects of surveying establishment of survey control monumermap overlays and detailed property clar	YEARS OF AML DESIGN EXPERIENCE: 9 s , including photogrammetry contents and establishing base lines iffications.	YEARS OF EXPERIEN YEARS OF AML RELATED EXPERIENCE: 15 Tol, if required, field edi	ICE DESIGN ting of map	YEARS OF DOMESTI WATERLINE DESIGN EXPERIENCE:	7 c mapping,
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NAME & TITLE (Last, First, Middle Int.) Brown, David A., P.S. Professional Surveyor Brief Explanation of Responsibilitie Responsible for all aspects of surveying establishment of survey control monumermap overlays and detailed property clar EDUCATION (Degree, Year, Specializat B.S., 1996, Engineering Technology West Virginia Association of Land Surve	years of aml design experience: 9 s I, including photogrammetry contents and establishing base lines ifications. ion)	YEARS OF EXPERIENT YEARS OF AML RELATED TO SERVE THE SERVE TO SERVE TO SERVE THE SERVE TO SERVE THE SERVE TO SERVE TO SERVE THE SERVE TO SERVE THE SERVE TO SERVE THE	ting of map and quantit	YEARS OF DOMESTI WATERLINE DESIGN EXPERIENCE: ping, topographicy measurement.	7 c mapping,
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14. PROVI A LIST OF SOFTWARE DESIC ERVICES	AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE	WHICH WILL BE USED TO COMPLETE AML
Software:	Autodesk 2010 Civil 3D	
	SedCad 4 - Erosion Control and Hydrology Software	are
	Haested Method Flowmaster Software for Channel	el Design
	Haested Method - Water CADD (Pipe Network Ar	nalysis)
*	Slope Stability -	
	PC Stable	
	RÉAME	
	SBSLOPE	
r	WinStable and WinStable 2003	
	Piling Walls, Anchors and Reinforced Earth Walls	3 -
	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 - Hydrolo	pgy
	LC 58 + RP 61 - Structural (wall)	* ,
	Microstation V8	
Surveying Equipment:	Trimble 4700 modular, RTK Global Positioning T	otal Station
	Trimble Geomatics Office Software	
	Topcon Total Stations (3)	
ž.	SMI Data Collectors (3)	
Printing/Plotting/Reproduction:	HP DesignJet T1120 Sharp A	R-C150 Full Color Copier/Printer
	HP DesignJet 1050C Plotter (2) Oce 705	56 Engineering-Size Copier
	HP LaserJet 8000 Printer (2)	
	HP Color LaserJet 3700	
	HP Color LaserJet 5500	
	Sharp AR-550 Copier/Printer (2)	

PROJECT NAME, TYPE AND	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
LOCATION 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 CO	OSTS: \$

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	;s y - ; - ; - v		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	

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17 COME ED WORK WITHIN L	AST 10 YEARS ON WHICH YOU WERE	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 Hurrican ∜	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 TH Street SE Charleston WV 25304	600,000.00	2009	Yes
Venus (Hamilton) Drainage AML Reclamation Design McDowell County, WV	WVDEP/AML&R 601 57 TH Street SE Charleston WV 25304	200,000.00	2011	Yes
Drews Creek Highwall AML Reclamation Design Raleigh County, WV	WVDEP/AML&R 601 57 TH 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 TH 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 TH 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 TH 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 TH Street SE Charleston WV 25304	150,000.00	2010	Yes
Shabbyroom Hollow Complex AML Reclamation Project McDowell County, WV	WVDEP/AML&R 601 57 TH Street SE Charleston WV 25304	750,000.00	2010	Yes
Gains Highwall AML Reclamation Project Harrison County, WV	WVDEP/AML&R 601 57 TH Street SE Charleston WV 25304	450,000.00	2011	Yes

18. CC _TED WORK	WITHIN LAST 10 YEARS ON W WAS RESPONSIBLE)	THICH YOU WERE SOCIATED WITH C	THER F		CATE PHASE OF WO FOR
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUC TED (YES OR NO)	FIRM ASSOCIATED WITH
WVARNG Eleanor Access Road Surveying & Roadway Design	WV Army National Guard 1740 Coonskin Drive Charleston WV 25311	\$300,000	2009	Yes	Williamson Shriver Architects
Eleanor, West Virginia 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.

	110	177 ~ 0.00	2007	Yes	Bennett Hofford Construction
Sawmill V : CD's	Summit III, LLC 234 Seven Farms Drive	17 7.00			Company
Snowshoe, vr V	Charleston, SC 29492				The Rice Mill Building
	Charleston, SC 25452				17 Lockwood Drive
					Charleston, SC 29401
Allegheny Energy -	First Energy Corp.	159,000.00	2008	Yes	OMNI Associates
Fairmont, WV	2800 Pottsville Pike		1		
	Reading, PA 19605			ļ	Tribut Ch. day A web to ste
Mingo Central High - 2	Mingo County BOE	127,000.00	2008	Yes	Williamson Shriver Architects
Matewan, WV	Sycamore Street				
,	Williamson, WV 25661			1	
Jefferson Elementary	Wood County	107,000.00	2008	Yes	Williamson Shriver Architects
Parkersburg, WV	Board of Education				
g,	1210 13th Street Parkersburg,	*	,		
	WV 26101	444,500,00	2008	Yes	E.T. Boggess
Pikeview Middle School	Mercer County Public Schools	114,500.00	2000	1 63	E.T. Boggess
Princeton, WV	1403 Honaker Avenue Princeton, WV 24740			1	
	Princeton, WV 24740				
		211 (10 70	2009	Yes	OMNI Associates
WV GSA Office Complex	State Of West Virginia	311,612.50	2009	, tes	Olini i rissociates
Fairmont, WV		267,000.00	2009 -	. Yes	E.T. Boggess
Greenbrier West High (LD)	Greenbrier County Schools	267,000.00	2007	1.05	Z. Z
Charmeo, WV	202 Chestnut Street Lewisburg, WV 24901		1.		
1	<u> </u>	105,000.00	2010	Yes	VIM, Inc.
Downtown Hotel Charleston	Various Clients	105,000.00	2010	7 55	, , , , , , , , , , , , , , , , , , , ,
- LD (Courtyard)					
Charleston, WV		108,000.00	2011	Yes	Arrow WV, Inc.
Project Arrow - Mill Creek	Trinity Works 2128 Mistletoe Boulevard	100,000.00			
Parking Lot Glen Jean, WV	Fort Worth, Texas 76110				• •
Glen Jean, WV	1011				•
	ido any additional	information or description of	f resourc	es support	ing your firm's
19. Use this space t	o perform work for the We	st Virginia Division of High	ways.		
qualificacions	o periorm were and		•	*	
20. The foregoing is	a statement of facts.			1	•
Signature: MW	ammad U. Riaz	Title:President		Date:	2/28/13
				ere paradi	90
Printed Name: Muha	mmad Riaz, P.E.		*		* *

NOTE: THIS DOCUMENT WILL BECOME VOID AFTER DECEMBER 31 IN CALENDAR YEAR OF DATE HEREON.

AML AND RELATED PROJECT EXPERIENCE MATRIX



DEP16395 OLDHOUSE BRATCH REFUSE PILE DESIGN

ERRADON AML and RELATED PROJECT EXPERIENCE MATRIX																							
		PROJECT EXPERIENCE											PRIMARY STAFF PARTICIPATION/CAPACITY M=Management P=Professional ***										
PROJECT NAME	Exp. Basis C=Corp. P=Personal *	Additional Info Provided in Section (s)	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						Х			Х				Х		Х	M/P	M/P	Р	Р	Р	
Roaring Creek #4	С	yes	Х					х			х					X	х		Р	Р	Р	Р	
Stonecoal Creek Complex	С	no		Х	Х	Х					Х				х	Х	Х		Р	Р	Р		
Stonecoal Creek Complex #2	С	no		Х	Х	Х					X				х	Х	х		M/P	Р			
Stonecoal Creek Complex #3	С	no		Х	Х	Х					Х				Х	Х	х		M/P	Р			
Jenkin Jones	С	no	Х	Х	Х	Х	х				х					Х	х		M/P	Р	Р		
Micajah Refuse Pile	С	no	Х	х	Х	Х	х	х			х	х				Х	х			Р	Р		
Carswell Hollow (Smith) Refuse	С	no		х		Х				Х	х				х	Х				Р	Р		
Cedar Creek Refuse	С	no		Х	Х	Х	Х				Х				Х		Х			Р	Р		
Spring Branch Burning Refuse Pile	С	no		Х		Х	X	Х			Х						х			Р	Р		
Grass Run Refuse (Award Winner)	С	no	Х	х	Х	х	Х				Х	х		X	х	Х	х			Р	Р		
Black Wolfe Refuse	С	no		х	X	Х	Х			Х	Х				х	Х	х			Р	Р		
Lower Burning Creek Refuse	С	no		Х	Х	Х	X			х	Х				х	х	Х			Р	Р		
Morgan Run PA #2	С	no	Х		Х	Х		Х			X			some.	х		Х			Р	Р	Р	
Drews Creek "A" Highwall	С	no	Х		Х	Х					Х						Х		Р	Р	Р	Р	
Venus (Hamilton, R) Drainage	С	yes	Х		Х	Х					Х								Р	Р	Р	Р	
Sara Ann (Vance) Drainage	С	yes	Х		Х	Х					Х				Х		Х		Р	Р	Р	Р	
Garden Ground Highwall 1	С	yes	Х	Х	Х	Х					Х				Х		Х		Р	Р	Р	Р	
Garden Ground Highwall 2	С	yes	X	Х	X	Х					Х				Х		Х		Р	Р	Р	Р	
Harris Branch Refuse Pile	С	yes	Х		X		2				X				Х		Х		Р	Р	Р	Р	
Kingwood Rt. 7 Highwall	С	yes	Χ	Х	X	Х					X				Х		Х		Р	Р	Р	Р	
Shabbyroom Hollow Complex	С	yes	X	Х	X	Х					X				Х		Χ		Р	Р	Р	Р	
Robinette Branch Refuse	С	yes	X	Х	X	X					X				Х		Х	Р	Р	Р	Р	Р	
Gains Highwall	С	yes	X	Х	X	X					X	,,			Х		X	1.475	Р	Р	Р	Р	
Lillbern-Pritt	С	yes	Χ			Χ					X	X					Χ	M/P	Р	Р	Р	Р	

^{*} 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.





Conley Branch (Whitt) Landfill

This complicated project included nearly 600 linear feet of stream bank restoration, one large drainir mine portal with approximately 200 linear feet of channel construction, one cistern for local residential water supply, and two dry mine seals. The complicated portion of the project was the stream bank restoration, and difficulty resulted from the requirement to maintain an existing bench at the top of the stream bank area. The stream bank restoration project was necessary because of an existing steep slope comprised of mine spoil and refuse that was reeling into the creek below. In order to stabilize the mine spoil and refuse, the stream bank had to be lined with large rip rap up to 25' in elevation, in conjunction with regrading the steep slope above the rip rap up to the bench elevation. The stream bank/slope stabilization portion of the project required in excess of 2500 cubic yards of rip rap.

Pierpont Refuse Pile

This project involved reclaiming an existing steep slope piled high with mine spoil/refuse, which was reeling into the creek below. The project consisted of regrading the steep slope (approximately 1 to 1) to a flatter, more stable slope, and back stacking the old abandoned high wall in the vicinity with the material gathered from regrading the slope. Additionally, there were several wet and dry mine seals in the area that required bat gate mine seals. The draining portals and existing bench drainage was collected into channels that were constructed on the bench, and the channels were designed to flow to an existing groin running down the mountain to the stream below. Because the dry mine seals on the project had the potential to impound water in the future, drains for the dry mine seals were installed, and the drains were designed to run to the bottom of the refuse pile, where and accumulated drainage could run to the creek below without washing over the refuse pile. It was necessary to take the drains to the toe of the slope because the elevation of the mine seals was below that of the channels constructed on the bench in front of the existing high wall.

Lillbern-Pritt

The Lilbern-Pritt Highwall Project is located in Barbour County, West Virginia, near the town of Junior. The site consists of a total of six highwalls, and in the initial design phase, areas of wetlands had to be delineated in order to avoid disturbance of any wetland area. Several wetland areas were defined in the project, and as a result, a significant portion of highwall 1 was left un-reclaimed, along with all of highwall 2, highwall 4, and highwall 5. Additional work included a retaining wall study, along with ditch design to carry mine conveyance to eliminate a foundation problem at a nearby residence at highwall 1, and soil cover over mine refuse leading to a large wetland at highwall 5. For the retaining wall design study several alternatives to reclaim a very difficult site immediately behind a residence were investigated. Alternatives included soil nails, rock anchors, wire net draping, reinforced concrete retaining walls, and gabion basket retaining walls. Considerations for the study were cost, constructability, and future maintenance.

The preferred alternative to the study was the soil nail/rock anchor wall at highwall 1, because there was no room to regrade and stabilize the soil behind and existing residential structure. Because of the limited space, regrading was not an option, and both cast in place retaining walls and gabion basket retaining walls had both space constraints and maintenance concerns, in addition to drainage concerns that could not be addressed with conventional retaining wall solutions. The soil nail/rock anchor system was designed to stabilized the failing slope while providing minimal disturbance to the structure, while at the same time providing a long term and essentially maintenance free project for the WVDEP, and allowing enough room between the soil nail/rock anchor face the and structure to allow for drainage channels to be constructed. After work was begun in the area of highwall 3, an existing county route was discovered which runs along the bench in front of highwall 3. The county route location was not clearly defined, but according to deeds for the properties adjacent to the county route, the county route served as a property boundary. Reclaiming the refuse and correcting steep slopes on the refuse in the vicinity of the wall was going to require disturbing the county route, and possibly relocation, and as a result the correct location of the county route had to be determined in order to re-establish property lines at the conclusion of the project.





Shabbyroom Hollow Complex

The Shabbyroom Hollow project was an approximately 10 acre complex located along Shabbyroom Branch in McDowell County, West Virginia, near the community of Roderfield. The site consisted of two coal refuse piles and several mine portals in various conditions, including collapsed portals, open portals and draining mine portals. Both refuse piles had areas of steep, unstable and barren slopes and were the primary source of high sediment loads to Shabbyroom Branch. The subsequent sediment deposits in Shabbyroom Branch resulted in a significant reduction of the flow carrying capacity of Shabbyroom Branch, and if the refuse piles collapsed into the adjacent stream, significant flooding would have occurred. The open mine portals were easily accessible and represented a significant life safety hazard from roof falls, potentially deadly gases and other hazards. The draining mine portals were in danger of collapsing and stopping the dewatering of the mine openings, potentially leading to catastrophic blowouts and subsequent downstream flooding. Several residents were also using the draining portals as their primary water source. The purpose of this reclamation program was to regrade the refuse piles to stable slopes, provide proper stabilization with vegetative cover and permanent drainage channel improvements, and safely seam the open and draining mine portals. Generally, refuse piles were regraded to stable slopes and permanent drainage patterns were established. A 60" pipe was necessary to carry the creek at one of the refuse piles to regrade the refuse pile in-place, as opposed to hauling material to a waste area off site. Where refuse piles toe into the creek, stream bank protection was provided. All mine portals were closed with an appropriate mine seal. Bat gates were also installed in all of the open mine portals. Underdrains and mine drain systems were installed to alleviate wet areas in several residents' yards. Several cisterns were installed to enable residents to continue to utilize the mine water as their primary source of water where necessary. All disturbed areas were revegetated or otherwise stabilized with structural methods.

Gains Highwall Project

The Gains Highwall project consisted of three sites located in Harrison County, West Virginia, near the city of Clarksburg. The site occupied approximately 17 acres of conglomerate land area. The purpose of this reclamation program was to regrade the refuse pile and highwall to stable slopes, provide proper stabilization, with vegetative cover and permanent drainage channel improvements and safely seal the open draining and surcharging mine portals. Generally, the refuse pile was regraded to stable slopes and permanent drainage patterns were established. The highwall was regraded to a stable slope by breaking down the top of the highwall and encapsulating the weathered shale strata to prevent further weathering and collapse of the sandstone strata above.

Permanent drainage patterns were established. The slip area was regraded to stable slopes and permanent drainage patterns were established. The mine portal contributing the saturation of the slip area was allowed to dewater by installing a horizontal bore. All mine portals were closed with an appropriate mine seal and several horizontal bores were installed to provide permanent and controlled dewatering and permanent drainage patterns were established. Bat gates were also installed in all of the open mine portals. Underdrains, drop inlets and Mine drain systems were installed to alleviate wet areas in several residents' yards. The subsidence area was repaired and a stable drainage channel was provided to alleviate surcharging of the mine workings. Several areas of scattered refuse were soil covered and seeded. All disturbed areas were revegetated or otherwise stabilized with structural methods.





Mallory (Gibson) Portals

The Mallory (Gibson) Portals project was located in Logan County, near the town of Mallory. This project consisted of 57 portals that needed to be sealed, two of which were draining and required ditch design to carry the mine drainage to a stream below the mine portals. Many of the mine portals appeared to be shallow openings which may have originally been used for house coal, but more than half of the portals were deep. Nearly all the mine portals received mine seals with bat gates, but a few of the very shallow portals received mine seals without bat gates. In addition to the mine seals, two gas lines had to be relocated to allow access to the project site. Below the portals, in the town of Mallory, underdrain was installed to correct wet areas on residences properties. Also in the town of Mallory two major culverts were designed to replace existing pipes that were collapsed or filled with sediment. In order for the culverts to be replaced, existing waterline had to be relocated and guardrail had to be installed on either end or the two major culverts. At the beginning of the design, a drainage study was performed to compare culverts against open channel reconstruction for a portion of the watercourse through the town. In the existing condition, two culverts were used to carry the stream under two roads. Our scope of services included replacing the two pipes, but there was an area between the two pipes that was an open channel. The drainage study compared alternatives and costs of the for the area between the two culverts.

Garden Ground Highwalls - Phase 1 and 2

The Garden Ground Highwalls – P hase 1 and 2 projects were located in Fayette County, West Virginia, near the Community of Glen Jean. The projects contained several sites occupying approximately 433 acres of conglomerate land area consisting of approximately 12 miles of dangerous highwall. The highwalls ranged in height from 20 to 70 feet. The slopes were steep and property owners were concerned about the possibility of falling debris. The sites also consisted of several coal refuse piles and in excess of 100 mine portals in various conditions, including collaps portals, open portals and draining mine portals. The refuse piles had areas of steep, unstable and barren slopes that were a primary source of high sediment load to the surrounding streams. The open mine portals were easily accessible and represented a significant life safety hazard from roof falls, potentially deadly gases and other hazards. The draining mine portals were in danger of collapsing and stopping the dewatering of the mine openings potentially leading to catastrophic blowouts and subsequent downstream flooding. Dangerous mine structures also existed on several of the sites. Several dangerous impoundments also existed on the sites. These dangerous impoundments could potentially collapse leading to catastrophic downstream flooding.

The purpose of the reclamation program was to regrade the highwalls to a stable slope by using the available mine spoil that existed on the adjacent strip benches or by breaking down the highwall where available mine spoil quantities were insufficient. Very few highwalls had to be broken down as the available mine spoil was of sufficient quantity in most cases. Proper stabilization, with vegetative cover and permanent drainage channel improvements were provided. Generally, the refuse piles were regraded to stable slopes, soil was covered and seeded and permanent drainage patterns were established. All of the dangerous impoundments were drained in a controlled manner and the soft bottom material was mucked out and allowed to dry. A rock blanket was then provided in the bottom of the impoundments and the dried material was then utilized in the backfilling of the impoundments and highwalls. All mine portals were closed with an appropriate mine seal. Bat gates were also installed in all of the open mine portals. Underdrains and Mine drain systems were installed to alleviate wet areas, impoundments and further saturation of highwall backfill areas. The dangerous mine structures were removed and disposed of at an approved landfill. Several barren areas of scattered refused were also soil covered and seeded. All of the required erosion and sediment control measures were installed prior to construction. Additi erosion and sediment control measure were installed and maintained during construction. All erosion and sediment control structures were removed after construction, once vegetation was reestablished. All disturbed areas were revegetated or otherwise stabilized with structural methods.





Sarah Ann (Vance)

Sarah Ann (Vance) was a project located along Conley Branch near Sarah Ann in Logan County. The site was comprised of open and collapsed draining portals, as well as an area that consisted of a slide. TERRADON provided additional surveying to include the new slide that had developed on the site. The company identified 24 portals: 8 that required wet or dry seals, along with 9 bat gate dry seals, 6 rip rap chutes and 3 cisterns. The project was completed during the summer of 2011.

Roaring Creek #4

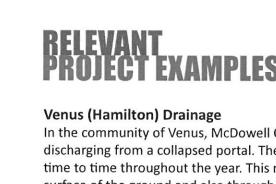
The site consisted of surface mine spoil material that was cast to the outslope and not reclaimed to the original contour. Large areas of unvegetated spoil were fund throughout the site. Also, large erosion gullies had developed in several areas, which caused spoil and fines to wash into Roaring Creek. The landowner, Marshall Walls, raised horses and he was very concerned about the highwalls and spoil areas. One horse broke its leg and had to be destroyed. Mr. Walls has two small children, and he was concerned about their safety on the areas of the farm that was mined. The 63 acre site was graded in the design phase to remove the highwalls and revegetation was included in the design. In addition, all drainage on the site was directed to new channels and conveyed away from the problem areas. Underdrain was also utilized in the design.

Morgan Run PA #2

The Morgan Run PA #2 project consisted of 2 sites that are located in Preston County, West Virginia, near the community of Albright. The two sites were separated by Morgan's Run. The project occupied approximately 8 acres of conglomerate land. Two refuse piles had areas of steep, unstable and barren slopes and sediment from the piles was being washed into adjacent road side ditches. The project also has 19 mine portals in various conditions, including collapsed portals, open portals and draining mine portals. The open mine portals were easily accessible and represented a significant life safety hazard from roof falls, potentially deadly gases and other hazards. The draining mine portals were in danger of collapsing and stopping the dewatering of the mine openings potentially leading to catastrophic blowouts and subsequent downstream flooding. Several drainage culverts on the project were severely eroded by the AMD discharging from the draining portals and would need to be replaced. An artesian well, discharging low pH AMD also exists on the project. Several areas of scattered refuse exist on the project. Old abandoned building ruins are present on site and present a hazard to the local population also. Areas of scattered trash and debris exist on the project as well. The purpose of the reclamation program was to regrade the two coal refuse piles to stable slopes, provide proper stabilization with vegetative cover and permanent drainage channel improvements, and safely seal the open and draining mine portals. Generally, the refuse piles were regraded to stable slopes and permanent drainage patterns were established. On site soil borrow areas were utilized to obtain the necessary soil cover material required. Access to the site isolated by Morgan's run was achieved by installation of a temporary stream crossing. The stream crossing was removed after construction activities were completed. All mine portals were closed with an appropriate mine seal and several wet seals were installed to provide permanent and controlled dewatering and permanent drainage patterns were established. Bat gates were also installed in all of the open mine portals. A sloping bat gate was installed in one of the mine portals in a 10 to 15 foot deep depression.

The artesian well was stabilized and the low PH AMD was treated with a limestone blanket surrounding the well. All trash and debris were disposed of at an approved landfill. Several areas of scattered refuse were soil covered and seeded. Abandoned building ruins were demolished and disposed of at an approved landfill. Some of the Stone building material was able to be disposed of on site in a rubble disposal area. All of the required erosion and sediment control measures were installed prior to construction. Additional erosion and sediment control measure were installed and maintained during construction. All erosion and sediment control measures were removed after construction, once vegetation was reestablished. All disturbed areas were revegetated or otherwise stabilized with structural methods.





In the community of Venus, McDowell County, on a steep mountain side, mine drainage was discharging from a collapsed portal. The amount of water flowing from this portal changes from time to time throughout the year. This mine water discharges down the mountain side, on the surface of the ground and also through underground voids, causing damage to the homes and property of the approximate seven (7) homeowners living down slope of this discharge. A wet seal was designed at the open portal and the drainage from this mine was conveyed into a pipe across the gas well road. A grouted rip rap drainage channel was designed to carry all flow away from the property owners, down the hillside to a point of discharge near the railroad.

Harris Branch

The Harris Branch site was located in McDowell County, West Virginia, near the community of Havaco. The project contained a coal refuse pile and is approximately 2 acres in size. The refuse pile had areas of steep, unstable and barren slopes that were a source of sediment load to the adjacent Tug Fork River. The main concern of the project was to eliminate the refuse encroachment on the fence and property of an adjacent land owner. Various items of trash and debris existed on the site as well.

The refuse pile was regraded to stable slopes, soil was covered and seeded and permanent drainage patterns were established. The refuse pile was removed from the adjacent property owner and the existing collapsed fence was removed and replaced. An off-site soil borrow area was utilized to obtain the necessary soil required for the soil cover and seeding. Riprap bank protection was utilized to prevent future washout and undercutting of the refuse pile as well as further erosion and sedimentation into the Tug Fork River. All trash and debris were disposed of at an approved landfill. All of the required erosion and sediment control measures were installed prior to construction. Additional erosion and sediment control measure were installed and maintained during construction. All erosion and sediment control measures were removed after construction, once vegetation was reestablished. All disturbed areas were revegetated or otherwise stabilized with structural methods.



KEY PERSONNEL RESUMES

KEY PERSONNEL RESUMES



Joe Saunders, PE Vice President: AML/ Transportation Project Manager, Primary Point of Contact

Education

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

Work Experience
TERRADON Corporation
2012-Present

ms consultants 2003-2012

Buchart Horn 1998-2003

Laborers Union 1990-1998

Registration Professional Engineer, West Virginia, Ohio North Carolina Joe Saunders is a Professional Engineer, licensed in West Virginia, Ohio and North Carolina. He is located in TERRADON's headquarters office in Nitro, WV where work for this project will be performed. Saunders offers a wealth of experience performed for the State of West Virginia, Department of Transportation, and Department of Environmental Protection related to engineering design and plan development for AML projects, structures and roadways. Saunders will be the Project Manager, responsible Engineer, and primary point of contact for the project. Working from the Nitro office, Saunders will be readily accessible to DEP.

As lead designer for TERRADON Corporation, Mr. Saunders is responsible for design engineering for AML and Highways projects. Responsibilities include preliminary design and reports, construction plans and specifications, construction estimates, contracts and bidding review, and construction engineering.

Mr. Saunders directs the in house AML and Highways design teams by QA/QC checking and reviewing, and hydrology and hydraulic calculations. Mr. Saunders also works with the design team to schedule manpower. With 15 years of experience as a designer and almost a decade of additional experience in highway and bridge construction, Saunders is experienced with all critical elements required of this contract.

Recent AML Project Experience Highlights:

- Mallory (Gibson) Portals (WVDEP) Served as Project Manager and Lead Design Engineer for this WVDEP-AML project located in Logan County, WV. Responsible for all project tasks and coordination with the client.
- Lillbern-Pritt Highwall Project (WVDEP) Serves as Project Manager and Lead Design Engineer for this WVDEP-AML project located in Fayette County, WV. Responsible for all project tasks and coordination with the client.
- Shabbyroom Hollow Complex (WVDEP) Serves as Project Manager and Lead
 Design Engineer for this WVDEP-AML project located in McDowell County, WV.
 Responsible for all project tasks and coordination with the client.
- Robinette Refuse Pile (WVDEP) Serves as Project Manager for this WVDEP-AML Project. While not initially involved as design engineer, Saunders oversaw any remaining work on the project, including engineering support for the client and contractor, and inspection services.
- U.S. 35 Design and Construction Plans, West Virginia Dept. of Transportation, Mason County (WVDOH) Structural Engineer: Overall QA/QC. Involved in checking and reviewing roadway geometry, drainage and quantities. Responsible for the design of box culverts.
- U.S. Route 35, Review of Shop Drawings, West Virginia Dept. of Transportations, WV (WVDOH) Tech Resp Staff reviewed and approved shop drawings for two-span, curved bridge crossing WV County Route 38 and Lower Ninemile Creek.
- Duhring Bridge Study, Design and Preparation of Replacement Plans, WV (WVDOH)
 Senior Structural Engineer and Technical Manager. Detailed the study of several alternates for a replacement bridge for a structure constructed in the 1930s.



KEY PERSONNEL RESUMES

William Gerencir uto CAD Designer/Technician

Mr. Gerencir has nearly 20 years of experiences in the engineering related fields including more than 13 years CAD design expertise for a broad scope of projects. He has been with TERRADON for most of those years where he is responsible for design, drafting, quantity estimates, site design and is also capable of managing a project and corresponding CAD files properly.

Recent AML Project Experience Highlights

- Robinette Refuse Pile-2010 Regraded a 5 acre refuse pile and restored 2,100 LF of stream that was being encroached on by said refuse pile and designed all necessary surface water conveyance channels. Served as lead CAD Designer on project responsible for site layout, grading. Regraded refuse pile in a manner to maintain the current location of an existing stream so as not to add length to the US Army Corps of Engineers permit process as well as avoid disturbing residents property in the area adjacent to the stream. Ensured balancing of earthwork, drainage layout and design. Also plan sheet preparation, profiles sheet preparation, cross section sheet preparation and detail sheet preparation. Responsible to coordinate CAD work and other design tasks with other CAD designers on the project. Generate quantity takeoffs on the project for the contractors bid form and the engineers cost estimate. Prepare the calculation brief on the project, perform quality control checks on the construction plan sheets. Produce the final deliverable including plans, contractors bid form, engineers and cost estimate. Administered conceptual design meeting with WVDEP on this project. Participated in field reconnaissance and field investigation necessary for completion of the project.
- Gain Highwall— 2010 Served as lead CAD Designer on this project responsible for site layout, grading, balancing of earthwork, drainage layout and design. Also plan sheet preparation, profiles sheet preparation, cross section sheet preparation and detail sheet preparation. Coordinate CAD work and other design tasks with other CAD Designers on the project. Generate quantity takeoffs on the project for the contractors bid form and the Engineers cost estimate. Prepared the calculation brief on the project as well as performed quality control checks on the construction plan sheets. Produced the final deliverable including plans, contractors bid form, engineers cost estimate, and calculation brief. Ran conceptual design meeting with WVDEP. Participated in field reconnaissance and field investigation necessary for the completion of the project.
- Shabby Room Hollow Complex— 2010 Served as lead CAD Designer on project responsible for site layout, grading, and balance of earthwork (regarded and balanced both refuse piles 1 and 2 which had very little room, on site as to not require removal of any refuse to another location on site of to an offsite waste area, drainage layout and design. Plan sheet preparation, profiles sheet preparation, cross section sheet

preparation, detailed sheet preparation. Also coordinate CAD work and other design tasks with other CAD designers on the project. Generate quantity takeoffs on the project for the contractors bid form and the engineers cost estimate.

• Harris Branch Refuse Pile - 2010 Served as lead CAD Designer on project responsible or Site layout, Grading and balancing of earthwork, Drainage layout and design also plan sheet preparation, profiles sheet preparation, cross section sheet preparation and detail sheet preparation, also to co-ordinate CAD work and other design tasks with other CAD designers on the project, Generate quantity take-offs on the project for the contractors bid form and the Engineers cost estimate. Also prepare the calculation brief on the project. perform quality control checks on the construction plan sheets. Produce the final deliverable including plans, contractors bid form, engineers cost estimate and calculation brief. Also run conceptual design meeting with wvdep on project. Also participate in field reconnaissance and field investigation necessary for completion of the project.

Work Experience
TERRADON Corporation

ERM-Midwest, Inc. 1992-1993

1993-Present

The H.C. Nutting Company 1990-1992

Certifications

West Virginia DOT Certified Portland Cement/Concrete Inspector

West Virginia Certified Compaction Inspector

WVDOH Certified Agg. Sampler

Fairmont State College Engineering Technician/ Technologist Certification Program #2356 Level III



KEY PERSONNEL RESUMES

Mark Clutter Project Manager

As Project Manager, Clutter prepares construction documents and associated permitting for numerous projects throughout Kentucky, Ohio, and West Virginia to include: erosion and sediment control plans, storm water management, design of impoundment closures, slope stability analysis, field surveying, drawings and specification preparation, design, design drafting, construction inspection, quality control testing, shop drawing review, project management, contract administration, permitting and report preparation.

Recent AML Project Experience Highlights

- Mullens Portals & Drainage- 2009, Mullens, Wyoming County, WV Served as Project Manager for AML Project No. DEP14430. Responsibilities included: project management, design, drawings and specification preparation, contract administration, water sampling, permitting, and report preparation. The project consisted of extensive mine workings requiring: construction access, treatment of numerous open and collapsed portals, and treating/conveying storm/mine drainage, in and around the city of Mullens. A majority of the mine drainage flowed through the city storm sewer system and under County Route 54, requiring close coordination with city, state, and federal agencies.
- Bellington Portals & Drainage—2009, Belington, Barbour County, WV Served as
 Project Manager- responsibilities included: project management, design, drawings
 and specification preparation, contract administration, water sampling, permitting,
 and report preparation. The project consisted of extensive mine workings requiring:
 construction access, treatment of numerous open and collapsed portals, and
 treating/conveying storm/mine drainage, in and around the city.
- Rumble Refuse & Portals- 2008, near Rumble, Boone County, WV Served as
 Project Manager- responsibilities included: project management, design, drawings
 and specification preparation, contract administration, water sampling, permitting,
 and report preparation. The project consisted of extensive mine workings requiring:
 construction access, stabilizing/regarding of refuse piles, treatment of open and
 collapsed portals, and treating/conveying storm/mine drainage.
- Elk Creek Portals- 2007, near Delbarton, management, design, drawings and specification preparation, contract administration, water sampling, permitting, and report preparation. The project consisted of extensive mine workings requiring: stream and construction access, treatment of numerous open and collapsed portals, and treating/conveying storm/mine drainage.

Education

B.S. Civil Engineering Technology Fairmont State College

A.A.S. Civil Engineering Technology Fairmont State College

A.A.S. Drafting/Design Engineering Technology Fairmont State College

Work Experience TERRADON Corporation 2010-Present

Triad Engineering, Inc. 2010-2011

WV Army National Guard 1990-2003

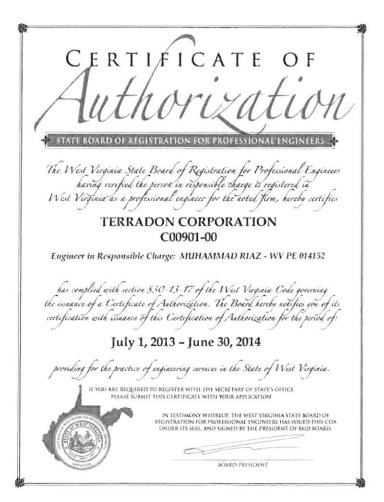
Registrations Certified 40 Hr. HAZWOPER (OSHA 29 CFR 1910.120)

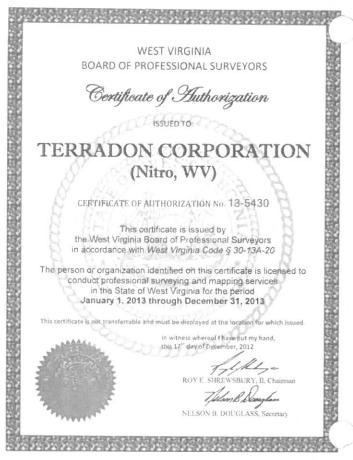


CERTIFICATIONS



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.



PURCHASING AFFIDAVIT

ORIGINAL

REQ No.	DEP16395
111 00 1401	

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: TERRADON Corporation, Inc. Authorized Signature: Muhammad U. Ria Date: 12.26:13 State of Putnam, to-wit: Taken, subscribed, and sworn to before me this 26 day of December, 2013 My Commission expires August 13, 2019 AFFIX SEAL HERE NOTARY PUBLIC Date: 12.26:13

NOTARY PUBLIC OFFICIAL SEAL BRENDA PARSONS
STATE OF WEST VIRGINIA
My Commission Expires
August 13, 2019
343 Meadow Dream Lane
Nitro, WV 25143

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.

TERRADON Corp	oration, Inc.
(Company)	
Muh am	mad U. Riaz
(Authorized Signature)	
Muhammad Riaz, I	President
(Representative Name,	Fitle)
304-755-8291	304-755-2636
(Phone Number)	(Fax Number)
1/2/14	
(Date)	

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ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: DEP16395

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.

necessary rev	necessary revisions to my proposal, plans and/or specification, etc.							
	Numbers Received:							
(Check the bo	ox next to each addendum rece	eived)						
	Addendum No. 1		Addendum No. 6					
Saryonal	Addendum No. 2		Addendum No. 7					
Taxanana a	Addendum No. 3		Addendum No. 8					
land d	Addendum No. 4		Addendum No. 9					
	Addendum No. 5		Addendum No. 10					
discussion hel	tand that any verbal representa d between Vendor's represent	ation madatives an	denda may be cause for rejection of this bid. I de or assumed to be made during any oral d any state personnel is not binding. Only the ications by an official addendum is binding.					
		TERI	RADOn Corporation, Inc.					
			Company					
		Muh	animal U. Riaz					
			Authorized Signature					
		1/2/1	4					
			Date					

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