
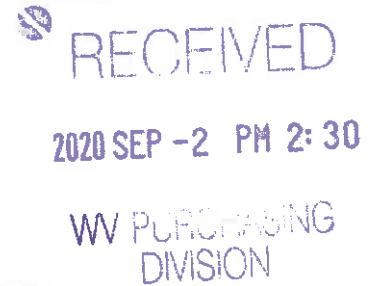


Statement of QUALIFICATIONS

Sardis (Saas) Landslide Project
West Virginia Department of Environmental Protection
Abandoned Mine Lands

A large circular collage of eight photographs showing various stages of the landslide project, including excavation, rock stabilization, and site monitoring.

A purple ink stamp with a circular logo on the left containing the letters 'WR'. The text of the stamp reads: RECEIVED, 2020 SEP -2 PM 2: 30, WV PURCHASING DIVISION.

RECEIVED
2020 SEP -2 PM 2: 30
WV PURCHASING
DIVISION

A stylized blue logo consisting of a square with a white 'E' shape inside.

E.L. ROBINSON
ENGINEERING

Project contact:
Eric J. Coberly, P.E.
5088 Washington Street, West, Charleston, WV 25313
304.776.7473

www.elrobinsonengineering.com



E.L. ROBINSON ENGINEERING

5088 Washington Street, West • Charleston, WV 25313 • T: 800.856.6485

elrobinsonengineering.com

September 3, 2020

West Virginia Department of Environmental Protection
Office of AML
c/o Guy Nisbet
Department of Administration, Purchasing Division
2019 Washington Street, East
Charleston, WV 25305

Dear Mr. Nisbet,

E.L. Robinson Engineering (ELR) is pleased to have the opportunity to submit our Statement of Qualifications to provide the West Virginia Department of Environmental Protection AML with design services for the Sardis (Saas) Landslide Project.

ELR has completed plans and specifications for numerous reclamation projects for WVDEP/AML for over 20 years in addition to several projects with ODNR and Maryland AML. We have included descriptions of our project experience later in this proposal. Please note that all staff that completed tasks on these projects are still with ELR.

The ELR staff has combined experience in the design of more than 280 AML projects.

We are able to assemble multiple design teams with our current staff. The Charleston office has:

A. Fourteen (14) registered professional engineers (civil or mining), one (1) geologist, three (3) landscape architects, six (6) engineers in training as well as several CADD technicians that may be used on these teams.

B. ELR Corporate experience in designing one hundred thirty-two (132) abandoned mine land remediation projects. Personal experience on approximately two hundred eighty (280) AML projects. This number does not include surveying/mapping/drilling projects.

E.L. Robinson Engineering has grown from 13 employees in 1996 to nearly 200 employees today. Throughout this growth period, we have continued to meet project deadlines while providing a high quality engineering product. Our office location in Charleston is centrally and conveniently located in respect to the WVDEP offices and the referenced project.

We at E.L. Robinson Engineering look forward to serving your agency under this contract. If you have any questions or need clarification, please feel free to contact me at (304) 776-7473.

Sincerely,

Eric J. Coberly, P.E.
Project Manager
E.L. Robinson Engineering



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EXECUTIVE SUMMARY

For more than 20 years, E.L. Robinson Engineering (ELR) has been a prime and preferred engineering and surveying consultant to the WV Division of Environmental Protection, Office of Abandoned Mine Lands and Reclamation (WVDEP/AML) program. We have provided this Executive Summary to directly respond to the Expression of Interest and provide ease for the evaluators to score this proposal.

Understanding of Project Requirements

E.L. Robinson Engineering fully understands the requirements for the Sardis (Saas) Landslide Project and is committed to giving the WVDEP/Office of Abandoned Mine Lands and Reclamation the time and attention that is necessary for this project. Professional services may include: civil; structural; geological; surveying and mapping; preparation of all necessary permit applications; construction monitoring and other services that may be required.

Firm's Capacity

E.L. Robinson Engineering approaches all engineering projects with the same attention to detail and fiscal responsibility to ensure the client receives the most cost effective plan, design and operationally functional project possible. Our approach truly makes the WVDEP/AML engineering staff an integral part in the design of the project. We want to make sure that the review staff is comfortable with the design concept before the project is submitted for review. During this process, we evaluate all technical alternatives to determine the most cost effective plan and technically acceptable project for the WVDEP/AML staff.

ELR has nearly 200 professionals on staff including many individuals experienced in mine reclamation. This capacity allows for the development of innovative and alternative methods to address complex issues involved in reclamation projects of this nature. Our QA/QC process also allows for a different perspective to be brought to the project before submission to the client and for review. ELR has the capacity to take this project from conception to completion with a wide variety of experienced professionals with in-house staff for planning, design, permitting, bidding and construction monitoring.

Our company will work diligently to deliver the highest quality, cost effective solution that the WVDEP/AML deserves. We have extensive knowledge in mine reclamation and are currently working with the WVDEP/AML on similar projects. We have an excellent understanding of the requirements for this type of project and a good working relationship with NEPA permitting and regulatory agencies.

Our Office Locations:

- 5088 Washington Street, West, Charleston, WV 25313
- 93 Virginia Street, Beckley, WV 25801
- 736 Airport Road, Chapmanville, WV 25508
- 600 Marketplace Avenue, Suite 106, Bridgeport, WV 26330
- 25 Hillcrest Avenue, Little Hocking, OH 45742
- 202 N. 5th Street, Ironton, OH 45638
- 1801 Watermark Drive, Suite 310, Columbus, OH 43215
- 1468 West 9th Street, Suite 500, Cleveland OH 44113
- 3145 Greenup Avenue, Ashland, KY 41101
- 3362 Six Forks Road, Raleigh, NC 27609
- 1301 Gervais Street Suite 450, Columbia, SC 29201



PROJECT APPROACH

E.L. Robinson is familiar with the Sardis (Saas) Landslide Project area and the desired design services for which you are seeking. We understand that the work to be provided to the WVDEP/AML for this reclamation project shall consist of:

- Upgrading access
- Geotechnical analysis
- Stabilizing landslide
- Hydrologic and hydraulic analysis
- Clearing and grubbing of affected areas
- Regrading
- Installation of drainage channels, underdrains and/or other controls to convey water off-site
- Revegetation of all disturbed areas
- Permitting
- Construction administration

We are anxious to become an extension of your staff by providing prompt planning, design and construction monitoring services as needed. We interact with the various review and permitting

agencies. As you will see from our resumes, we are uniquely diversified to provide quality engineering services to your agency.

E.L. Robinson will work closely with the WVDEP/AML and all regulatory and permitting agencies to complete this project. We feel that our extensive knowledge and experience in the planning and design of similar projects are significant assets in developing a cost-effective solution to your reclamation project.


The scope of services will include but are not limited to:

- Conceptual engineering and identification of permitting requirements
- Surveying and contour mapping
- Geotechnical services
- Design
- Preparation of plans and specifications
- Participation in the pre-bid meeting
- Participation in the pre-construction meeting
- Preparation of all necessary permit applications
- Construction monitoring if requested



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
ABANDONED MINE LANDS

Project Manager
Eric Coberly, P.E.



QA/QC
Edward Robinson,
P.E.

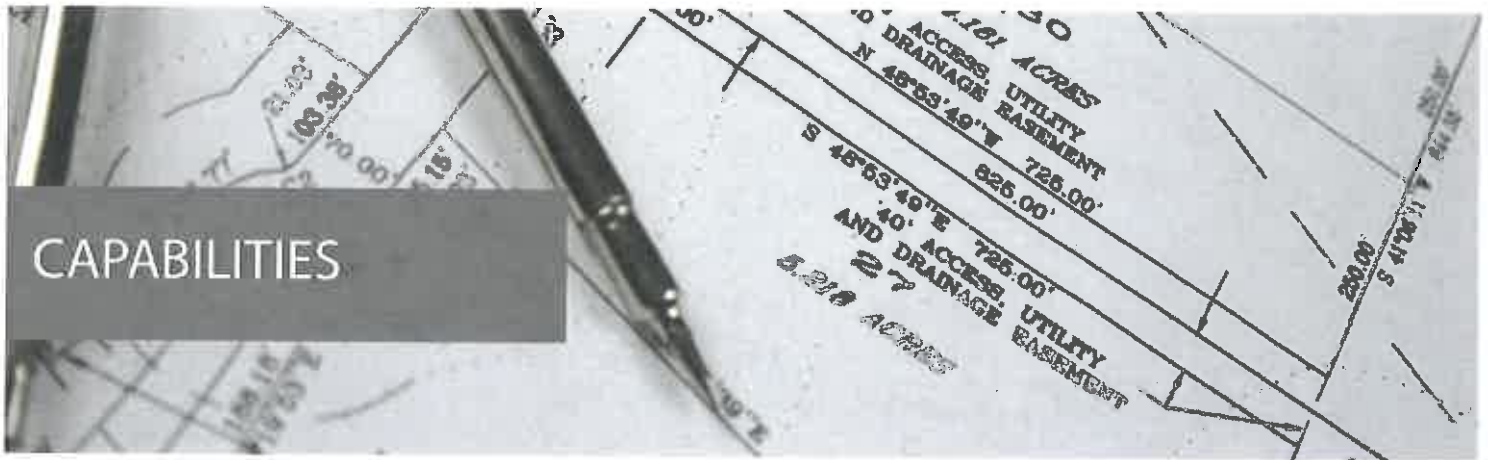
Project Engineers
Tim Cart, P.E.
Mark McGettigan, P.E.
J.D. Kinder, P.E.

Surveyor
Tom Rayburn, P.S.

Geologist
Richard Watts, P.G.

Project Designers
John Kelly
Gary Workman
Todd Garnes

Inspector
Heather Woods-Shaffer



CAPABILITIES

Over the past 40 years, E.L. Robinson Engineering has focused its efforts on delivering quality projects to our clients and building strong relationships based on trust and partnership. We believe building lasting relationships with our clients is key to delivering exceptional service for many years to come.

E.L. Robinson provides WVDEP/AML with the capabilities, expertise and resources of one of the top-notch civil engineering firms in the region. Our offices are staffed with professionals experienced in AML reclamation mapping, permitting, design and construction monitoring. Further, we are very familiar with the requirements of the permitting and regulatory agencies which expedites the completion of projects.

As part of our commitment to quality, E.L. Robinson realizes that every project, client and location is very different. As a result, we look at each project independently to determine the most feasible and functional solution. Specifically, we look at ways we can maximize the project benefit and minimize the construction cost while at the same time completing projects on time and within budget. We have demonstrated abilities in developing practical and cost-effective reclamation and improvement projects and are dedicated to meeting project schedules and budgets. Such demonstrations can be seen in our prior work on our most recent reclamation projects including:

- Maryland Shallmar Landslide Emergency
- Maryland Scenic Railroad Landslide
- Red Warrior Gob & Slide
- North Matewan (Akers) Landslide
- Branchland (Blankenship) Landslide
- Coburns Creek Landslide
- Sauls Run Landslide
- Missouri Fork Landslide
- Worthington (Hess) Landslide
- Copen Road Landslide
- Dans Branch (Dillon) Landslide
- Pendleton Creek Highwall
- Maryland Barton Mine Pool
- Glen Alum Complex
- Carson One Special Reclamation Project
- Vickers Branch (Butcher) Drainage
- Sugarcamp Run Burning Refuse Phase II
- Craigmoor (Strader) Landslide Emergency
- Maryland G&S Landslide Study
- Sauls Run (Bennett) Landslide
- West Milford (Chapman) Landslide
- Roderfield (Simpson) Landslide
- Scotch Hill Mine Fire
- Mammoth (Shamblin) Landslide
- Delbarton (Curry) Landslide
- Big Creek (Surgoine) Landslide
- Crooked Run (Davis) Landslide
- Precious (Doughty) Landslide
- Rivesville (Parker) Landslide
- Bridgeport (Ridgeway) Landslide
- North Matewan (Ross) Landslide
- Summerlee Refuse Phase II
- Weston (Williams) Landslide
- Smithers Landslide

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

Attachment "B"

PROJECT NAME Sardis (Saas) Landslide DEP210000001	DATE (DAY, MONTH, YEAR) September 3, 2020	FEIN 55-0594633
---	--	--------------------

1. FIRM NAME E.L. Robinson Engineering Co.	2. HOME OFFICE BUSINESS ADDRESS 5088 Washington Street, West Charleston, WV 25313	3. FORMER FIRM NAME
---	---	---------------------

4. HOME OFFICE TELEPHONE 304-776-7473	5. ESTABLISHED (YEAR) 1978	6. TYPE OWNERSHIP Individual x Corporation Partnership Joint-Venture	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES x NO
--	-------------------------------	--	--

7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE
5088 Washington Street, West 304-776-7473/Eric Coberly, P.E./54 Staff in Charleston Area
Charleston, WV 25313

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Ed Robinson, P.E. 304 776-7473 Ext 211	8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS
---	--

9. PERSONNEL BY DISCIPLINE

4 ADMINISTRATIVE ARCHITECTS	— ECOLOGISTS	3 LANDSCAPE ARCHITECTS	7 STRUCTURAL ENGINEERS
6 CADD OPERATORS	— ECONOMISTS	— MECHANICAL ENGINEERS	7 SURVEYORS
— CHEMICAL ENGINEERS	— ELECTRICAL ENGINEERS	1 MINING ENGINEERS	— TRAFFIC ENGINEERS
22 CIVIL ENGINEERS	— ENVIRONMENTALISTS	— PHOTOGRAMMETRISTS	— OTHER
22 CONSTRUCTION INSPECTORS	— ESTIMATORS	PLANNERS: URBAN/REGIONAL	
— DESIGNERS	1 GEOLOGISTS	— SANITARY ENGINEERS	
DRAFTSMEN	— HISTORIANS	1 SOILS ENGINEERS	
	— HYDROLOGISTS	— SPECIFICATION WRITERS	74 TOTAL PERSONNEL

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 14
***RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.**

10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? YES NO X This is not applicable

11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Confidential Qualification Questionnaire" for each if copy is not on file with AML.

NAME AND ADDRESS: Novel Geo – Environmental (NGE) 806 B Street, St. Albans, WV	SPECIALTY: Drilling	WORKED WITH BEFORE <input checked="" 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. Is your firm experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?
 YES Description and Number of Projects: One hundred twenty one (132) Projects - See Attached Sheet

NO

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects: Ten (10) Projects Listed - See attached Sheet

NO

C. Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects: Ten (10) Projects Listed - See attached sheet

NO

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

YES Description and Number of Projects: > 200 - in Firm History - 65 Recent Projects Listed
All ELR WV & OH AML Projects since 2003 have been surveyed with ELR Surveying Staff

NO

E. Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)

YES Description and Number of Projects: Ninety-seven (97) Total
Twelve (12) Domestic Waterline Experience (AML Related)
Thirty-five (35) Evaluation of Aquifer Degradation
Seventy (70) Non-AML Domestic Water Lines

NO

F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?

YES Description and Number of Projects: Seven (7) Projects

NO

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Edward L. Robinson, President	20	31	37

Brief Explanation of Responsibilities

Mr. Robinson worked in the Right of Way Division of the WV Department of Highways for ten years where he reviewed major utility plans. He has extensive experience in property surveys, property title searches, aerial mapping and land acquisition. He has provided quality control on all projects designed by this firm for the past 25 years. Provide and coordinate Quality Control on all design projects.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science 1969 Civil Engineering
 Master of Science 1981 Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers - Past President WV
 American Council of Engineering Companies
 National Society of Professional Engineers

REGISTRATION (Type, Year, State)

1975 Civil Engineering
 Registered in West Virginia and Kentucky
 Professional Licensed Surveyor No. [REDACTED]

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:
Richard W. Watts, P.G.	36	41	1

Brief Explanation of Responsibilities

Mr. Watts has served as project geologist on more than ninety (90) abandoned mine land projects. Responsibilities include project management, field reconnaissance, drilling coordination, laboratory testing and analysis, stability analysis, specification writing, quantity determinations, cost estimates, pre-bid and pre-construction meetings. Projects included surface and deep mine reclamation, subsidence, AMD treatment and waterline feasibility studies.

EDUCATION (Degree, Year, Specialization)

B.S./1977/Geology
 M.S./1994/Geography

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Geological Society of America
 Association of Engineering Geologists

REGISTRATION (Type, Year, State)

Professional Geologist/1992/Virginia
 Professional Geologist/1993/Kentucky

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:
John Kelly II, E.I.	21	21	15

Brief Explanation of Responsibilities

Mr. Kelly has worked on many AML projects since joining ELR. His responsibilities have included drilling inspection, sampling of coal refuse materials, hydrology, hydraulics design of drainage structures, and development of regrading plans. Estimation of quantities developed estimated cost. Mr. Kelly is proficient with Auto Cadd. Mr. Kelly has performed layout and inspection of core drilling operations for bridge and roadway projects. In addition, he has designed cut slopes for large-scale roadway projects such as the US Route 52 Kermit Bypass in Mingo County, WV and Meadowbrook Road in Harrison County, WV.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering/1998/WVU

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Engineer Intern, 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:
Timothy B. Cart, P.E.	36	37	24

Brief Explanation of Responsibilities

Mr. Cart has completed numerous mine reclamation projects under the AML program, including regrading of coal refuse materials, re-establishment of vegetation cover, disposal of acid producing materials, and developing methods for extinguishing burning materials and disposal of old mining structures. Designed passive AMD treatment systems. Conducted Phase I and Phase II Studies to determine if groundwater had been affected by pre-law mining. Mr. Cart has extensive experience in the design and construction management of waterline extension projects. Mr. Cart has recently completed water projects in Mingo; Kanawha; Putnam; and Cabell counties. Mr. Cart has performed geotechnical engineering calculations and designs for settlement analysis of dams and other embankments.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science 1981 Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Professional Engineer WV OH

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:
Mark McGettigan, P.E.	11	11	11

Brief Explanation of Responsibilities

Mr. McGettigan has worked on several AML projects since joining our firm. He has developed grading plans, cross sections, estimated and checked quantity calculations. He has also served as a field inspector for several waterline projects designed by E. L. Robinson Engineering Co. He has been the lead designer on waterlines over the past five years.

Mr. McGettigan also has experience with surveying and equipment including; theodolites, levels, and total stations. He has also performed various concrete and soil tests and is certified on Troxler nuclear density gage.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering Technician/Fairmont State/1999

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Professional Engineer 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:
Randall L. Lackey, P.E.	1	11	1

Brief Explanation of Responsibilities

Mr. Lackey has performed hydraulics and scour for Ripley Town Bridge; Tallman Bridge; Meadowbrook Road Bridge; Simpson Creek Bridge; Kermit Bypass Bridge; Left Hand Fork Bridge; and Blennerhassett Bridge.

Mr. Lackey has also performed calculations for deck drainage; performed girder design and analysis; pier design and analysis; prepared design study reports; type, size and location reports and final plans on many of our Division of Highways projects.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering/1999

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Professional Engineer 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:
J. Todd Garnes	8	8	8

Brief Explanation of Responsibilities

Mr. Garnes experience surveying and providing CADD Design for mine reclamation projects and waterline and sewer extrusions. He has provided construction inspection services for landsides and subsidence projects in Ohio. Mr. Garnes has performed numerous water feasibility studies, which involved interviews, water sampling and analysis, mapping, mine research, and development of final reports.

EDUCATION (Degree, Year, Specialization)

A.S. Architectural Design/ 1999
A.S. Computer Aided Drafting and Design/ 1999

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Thomas Rayburn, P.S.		41	

Brief Explanation of Responsibilities

Mr. Rayburn has experience in mine mapping and surveying, formulated short term and long range mining plans for all types of coal mining, designed mine drainage and water supply systems for underground and surface mines, designed mine ventilation plans and systems which include precision pressure quality surveys and computer simulation of ventilation systems.

He has performed slope stability analysis and hydrology calculations, provides computer analysis for mining applications, work with leases and land management as well as reclamation and environmental permits.

By utilizing "state of the art" electronic total stations and/or GPS (Satellite) equipment, he performs control surveys for aerial mapping and collects data and develops GIS for utility mapping.

Mr. Rayburn has also performed surveying and mapping for large scale highway projects.

EDUCATION (Degree, Year, Specialization)

A.S. Mechanical Engineering, WVIT/1970

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Professional Surveyor 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:
James Eric Gwinn, E.I.	10	11	11

Brief Explanation of Responsibilities

Mr. Gwinn has experience in construction layout for waterline projects. He performs calculation and permit requirements. He has worked on the Cabell County Water Project and the raw water intake structure for the Fayette Plateau Regional Water Project. He has performed calculations on various AML project. Mr. Gwinn has designed approach slabs, decks and extensive detailing on several bridge projects.

EDUCATION (Degree, Year, Specialization)

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

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Workman, Gary A., CADD Senior Technician	25	25	5

Brief Explanation of Responsibilities

Mr. Workman is responsible for CADD design on AML projects, as well as geotechnical soil analysis. He Worked on 44 WVDEP/AML projects while employed at Ackenheil, and has worked on 23 AML projects while at E. L. Robinson.

EDUCATION (Degree, Year, Specialization)

Technical School/1987/CADD

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

WVDOH certifications compaction, aggregates and concrete

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:
Coberly, P.E. , Eric J.	36	36	16

Brief Explanation of Responsibilities

Mr. Coberly has performed AML Grant and Emergency project designs since 1984. Projects have included highwall backfill, refuse regarding, portals, mine drainage, subsidence, refuse and mine fire abatement. Mr. Coberly has participated in the design of over 100 such project while working for WVDEP or at ELR. Included in that total is over 30 emergency project designs completed in Ohio and West Virginia. Mr. Coberly has served in various capacities with the WV AML Program including construction and design administrator as well as the Chief of the Office. This involved the review of hundreds of additional projects in the 22 years spent with AML program

EDUCATION (Degree, Year, Specialization)

B.S. Engineering of Mines, 1983
M.S. Engineering of Mines, 1990

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

WV P.E. [REDACTED]
Ohio P.E. [REDACTED]

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:
Wendell Williams	0	16	5

Brief Explanation of Responsibilities

Mr. Williams has been employed with ELR since 1978, having over thirty-seven years of engineering and design experience. Mr. Williams has worked on over one hundred fifty WVDEP-AML projects. He has been involved with every aspect of the process including initial site visits, ground control surveys, coordination of aerial photography, map editing and the submittal of final drawings.

EDUCATION (Degree, Year, Specialization)

A.A.S. CAD Technology, West Virginia State University, 1997
B.A. Board of Regents, West Virginia Institute of Technology, 1999

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

Various computer hardware and software including: Microstation, InRoads, AutoCAD, ELRSoil, Microsoft Office applications, Haested, Water CADD, Culvert Master, Flow Master/Civil 3D

Various surveying equipment:

Instruments - Topcon Total Station (6), Trimble Robotic DR200+ (2)

GPS Equipment - Trimble 5700 Receiver (6), Trimble TSCe Controller/Handheld (5)

*all equipment lists have various misc. survey equipment to go along (poles, tape measures, data collectors, etc.)

Riegl LMS - 360 3D Laser Scanner - surface imaging system based upon accurate distance measurement by means of electro-optical range measurement and a two axis scanning mechanism.

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Weston (Williams) Landslide AML Lewis County	WVDEP/AML	Landslide Abatement Design	\$1,220,000	80
Smithers Landslide AML Fayette County	WVDEP/AML	Landslide Abatement Design	\$1,000,000	75
Willis Branch Sewer Extension Wastewater Pax, WV	Town of Pax	Design and Construction Inspection	\$2,291,000	95
West Virginia Great Barrel Company Project Site Development Greenbrier County, WV	West Virginia Great Barrel Company, LLC	Surveying, Design and Construction Inspection	\$1,500,000	95
Route 60 East Sewer Wastewater White Sulphur Springs, WV	City of White Sulphur Springs	Design and Construction Inspection	\$1,500,000	40
City of Hinton CSO Abatement Project Phase I Wastewater Hinton, WV	City of Hinton	Testing, Design, Construction Inspection	\$3,500,000	50
City of Ronceverte Water Distribution System Rehab Water Ronceverte, WV	City of Ronceverte	Design and Construction Inspection	\$2,000,000	50

TOTAL NUMBER OF PROJECTS:

TOTAL ESTIMATED CONSTRUCTION COSTS: \$

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Iaeger Regional Sewer Project Wastewater McDowell County PSD	McDowell County PSD	Design and Construction Inspection	\$7,900,000	40
Heaters-Weyerhaeuser Waterline Upgrade Water Braxton County, WV	Flatwoods-Canoe Run PSD	Design and Construction Inspection	\$8,000,000	90
Frank-Bartow Sanitary Sewer Extension Wastewater Pocahontas County, WV	Pocahontas County PSD	Design and Construction Inspection	\$2,766,000	80
Deep Water & Powellton Water Distribution Water Fayette County, WV	Fayette County, WV	Design and Construction Management	\$2,515,000	40
Harts Run Waterline Extension Project Water White Sulphur Springs, WV	City of White Sulphur Springs	Design and Construction Management	\$2,000,000	95
Berwind Water Treatment Plant Improvements Water McDowell County, WV	McDowell County PSD	Design and Construction Management	\$243,000	70
Coalwood Sewer Project Phase I Wastewater McDowell County	McDowell County PSD	Design and Construction Management	\$3,250,000	80
TOTAL NUMBER OF PROJECTS:		TOTAL ESTIMATED CONSTRUCTION COSTS: \$		

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Snowshoe Regional Wastewater Project Wastewater Pocahontas County, WV	Pocahontas County PSD	Design and Construction Management	\$5,000,000	40
Corridor H Design Build Kerens-Parsons Roadway/Structures Randolph/Tucker County, WV	WVDOT-DOH	Surveying, Design and Construction Management	\$200,000,000	40
Corridor H Design Build US 219-WV 72 Roadway/Structures Randolph/Tucker County, WV	WVDOT-DOH	Surveying, Design and Construction Management	\$176,000,000	0
WV Route 10 Operational Improvements (Con 2) Roadway/Structures Mercer/Wyoming County, WV	WVDOT-DOH	Surveying, Design and Construction Management	\$17,000,000	30
WV Route 10 Operational Improvements (Con 5) Roadway/Structures Mercer/Wyoming County, WV	WVDOT-DOH	Surveying, Design and Construction Management	\$33,000,000	50
WV Route 10 Operational Improvements (Con 3) Roadway/Structures Mercer/Wyoming County, WV	WVDOT-DOH	Surveying, Design and Construction Management	\$31,000,000	50

TOTAL NUMBER OF PROJECTS:

TOTAL ESTIMATED CONSTRUCTION COSTS:

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Route 18 South-Snowbird Road Waterline Extension Water Doddridge County, WV	Doddridge County PSD	969,500	2019	Yes
Cheat Mountain Water System Acquisition Water Pocahontas County, WV	Pocahontas County PSD	\$2,109,000	2018	Yes
Airport-Ameagle Water Project Water Raleigh County, WV	Raleigh County PSD	\$5,100,000	2016	Yes
Blue Knob Waterline Extension Project Water Clay County, WV	Clay Municipal Water Works	\$2,321,000	2019	Yes
City of Salem Sanitary Sewer Evaluation Survey Wastewater Salem, WV	City of Salem	\$96,000	2016	Yes
Emergency Intake Construction Project Water Mingo County, WV	Mingo County PSD	\$500,000	2018	Yes
Besoco-Pickshin Water Extension Project Water Raleigh County, WV	Raleigh County PSD	\$369,939	2019	Yes
Kenova Downtown School Waterline Improvements Project Water Kenova, WV	City of Kenova	\$1,961,000	2018	Yes

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Cheat Mountain Water Post Acquisition Project Water Pocahontas County, WV	Pocahontas County PSD	\$2,300,000	2019	Yes
Scott Road-Findley Road Waterline Extension Water Randolph County, WV	Norton Harding Jimtown PSD	\$1,300,000	2016	Yes
Otsego/Pierpoint/Maben Waterline Extension Water Wyoming County, WV	Eastern Wyoming PSD	\$9,800,000	2018	Yes
Covel Waterline Extension Project Water Wyoming County, WV	Eastern Wyoming PSD	\$5,600,000	2016	Yes
Barkers Ridge Basin Waterline Extension Ph 1 Water Wyoming County, WV	Eastern Wyoming PSD	\$5,600,000	2017	Yes
Mozart Sanitary Sewer Project Wastewater Marshall County, WV	Marshall County Sewerage District	\$9,500,000	2019	Yes
Green Valley Glenwood PSD Water System Improvements Water Mercer County, WV	Green Valley Glenwood PSD	\$15,711,000	2019	Yes
Cow Creek Waterline Replacement Project Water Putnam County, WV	Putnam PSD	\$500,000	2018	Yes

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Maryland Consol Shaft AML Frostburg, MD	Maryland AML	\$200,000	2017	Yes
Craigmoor (Strader) Landslide Emergency AML Randolph County, WV	WVDEP-AML	\$400,000	2017	Yes
Sauls Run (Bennett) Landslide AML Lewis County, WV	WVDEP-AML	\$500,000	2017	Yes
Shaffer Investigation AML Harrison County, WV	WVDEP-AML	\$50,000	2017	Yes
West Milford (Chapman) Landslide AML Harrison County, WV	WVDEP-AML	\$1,000,000	2019	Yes
Roderfield (Simpson) Landslide AML McDowell County, WV	WVDEP-AML	\$250,000	2017	Yes
Scotch Hill Mine Fire AML Preston County, WV	WVDEP-AML	\$1,000,000	2019	Yes
Mammoth (Shamblin) Landslide AML Kanawha County, WV	WVDEP-AML	\$500,000	2017	Yes

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Delbarton (Curry) Landslide AML Mingo County, WV	WVDEP-AML	\$500,000	2019	Yes
Big Creek (Surgoine) Landslide AML Logan County, WV	WVDEP-AML	\$400,000	2019	Yes
Crooked Run (Davis) Landslide AML Harrison County, WV	WVDEP-AML	\$300,000	2017	Yes
Procious (Doughty) Landslide AML Clay County, WV	WVDEP-AML	\$350,000	2017	Yes
Rivesville (Parker) Landslide AML Marion County, WV	WVDEP-AML	\$400,000	2018	Yes
Bridgeport (Ridgeway) Landslide AML Harrison County, WV	WVDEP-AML	\$900,000	2019	Yes
North Matewan (Ross) Landslide AML Mingo County, WV	WVDEP-AML	\$500,000	2019	Yes
Summerlee Refuse Phase II AML Fayette County, WV	WVDEP-AML	\$900,000	2019	Yes

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

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
Linmont Bridge Replacement Cabell County	WV Dept of Transportation Engineering Division Charleston, WV 25301	Bridge Design (VE)	2011	Yes	Paul's Concrete
Clothier Bridge Logan County	WV Dept of Transportation Engineering Division Charleston, WV 25301	Bridge Design (VE)	2011	Yes	Paul's Concrete
Market Street Bridge Brooks County, WV	WV Dept of Transportation Engineering Division Charleston, WV	Post Design Services	2011	Yes	Ahern & Assoc.
Leon Thru Girder Bridge Mason County, WV	WV Dept of Transportation Engineering Division Charleston, WV	Plans for Bridge (VE) Hydraulics Post Design	2010	Yes	Triton Construction
Holley Grove Bridge Kanawha County	WV Dept of Transportation Engineering Division Charleston, WV	\$500,000	2010	Yes	Triton Construction

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program.
E. L. Robinson Engineering Co. is committed to the WVDEP/AML program to provide professional design, surveying and mapping and construction monitoring services in a timely and cost-efficient manner. Our business plan relies heavily on the work offered by the WVDEP/AML program.

20. The foregoing is a statement of facts.

Signature: Eric J. Coberly Title: PROJECT MANAGER

Date:
September 3, 2020

Printed Name: Eric J. Coberly, P.E.



EXPERIENCE

Maryland Shallmar Landslide Emergency

Project Location: Garrett County, Maryland
Completion Date: September 2018
Client: Maryland Department of the Environment
Project Description: Landslide Abatement Design

Maryland Scenic Railroad Landslide

Project Location: Frostburg, Maryland
Completion Date: August 2016
Client: Maryland Department of the Environment
Project Description: Landslide Abatement Design

Red Warrior Gob & Slide

Project Location: Kanawha County, West Virginia
Completion Date: June 2015
Client: WVDEP-AML, Charleston, WV
Project Description: Performed surveying, drilling and design for a potential blowout area. Designed horizontal bore for dewatering.

North Matewan (Akers) Landslide

Project Location: Mingo County, West Virginia
Completion Date: June 2013
Client: WVDEP-AML, Charleston, WV
Project Description: Performed surveying, drilling and emergency design for stabilizing landslide.



EXPERIENCE

Branchland (Blankenship) Landslide

Project Location: Lincoln County, West Virginia

Completion Date: May 2014

Client: WVDEP-AML, Charleston, WV

Project Description: Performed surveying, drilling and emergency design for stabilizing landslide.

Coburns Creek Landslide

Project Location: Preston County, West Virginia

Completion Date: May 2014

Client: WVDEP-AML, Bridgeport, WV

Project Description: Performed surveying, drilling and emergency design for stabilizing landslide.

Sauls Run Landslide

Project Location: Lewis County, West Virginia

Completion Date: May 2015

Client: WVDEP-AML, Charleston, WV

Project Description: Performed surveying and emergency design for stabilizing landslide.

Missouri Fork Landslide

Project Location: Boone County, West Virginia

Completion Date: May 2015

Client: WVDEP-AML, Charleston, WV

Project Description: Performed surveying and emergency design for stabilizing landslide.



EXPERIENCE

Worthington (Hess) Landslide

Project Location: Marion County, West Virginia

Completion Date: May 2015

Client: WVDEP-AML, Bridgeport, WV

Project Description: Performed surveying, drilling and emergency design for mine blowout and landslide abatement.

Copen Road Landslide

Project Location: Braxton County, West Virginia

Completion Date: July 2015

Client: WVDEP-AML, Bridgeport, WV

Project Description: Performed surveying, drilling and emergency design for stabilizing landslide.

Dans Branch (Dillon) Landslide

Project Location: Kanawha County, West Virginia

Completion Date: June 2015

Client: WVDEP-AML, Charleston, WV

Project Description: Performed surveying, drilling and design for a potential blowout area. Designed horizontal bore for dewatering.

Pendleton Creek Highwall

Project Location: Tucker County, West Virginia

Completion Date: September, 2018

Client: WVDEP-AML

Project Description: Highwall Backfill



EXPERIENCE

Maryland Barton Mine Pool

Project Location: Allegany County, Maryland
Completion Date: June 2018
Client: Maryland Department of the Environment
Project Description: Mine Pool Evaluation and Design

Glen Alum Complex

Project Location: Mingo County, West Virginia
Completion Date: September 2014
Client: WVDEP-AML, Charleston, WV
Project Description: Performed surveying and design for large refuse area and upgrading of surface drainage.

Carson One Special Reclamation Project

Project Location: Upshur County, West Virginia
Completion Date: June 2015
Client: WVDEP-Special Reclamation, Philippi, WV
Project Description: Performed surveying, drilling and design for regrading refuse, sealing mine shafts and slopes and upgrading drainage structures.

Vickers Branch (Butcher) Drainage

Project Location: Logan County, West Virginia
Completion Date: 2013
Client: WVDEP-AML, Charleston, WV
Project Description: Performed survey, drilling, design for mine seals and mine drainage control.



EXPERIENCE

Sugarcamp Run Burning Refuse Phase II

Project Location: Nicholas County, West Virginia

Completion Date: 2013

Client: WVDEP-AML, Oak Hill, WV

Project Description: Performed site survey, drilling and prepared burning refuse abatement design.

Craigmoor (Strader) Landslide Emergency

Project Location: Harrison County, West Virginia

Completion Date: 2017

Client: WVDEP-AML

Project Description: Landslide abatement design

Maryland G&S Landslide Study

Project Location: Kitzmiller, Maryland

Completion Date: 2019

Client: Maryland AML

Project Description: Landslide causation study

Sauls Run (Bennett) Landslide

Project Location: Lewis County, West Virginia

Completion Date: 2017

Client: WVDEP-AML

Project Description: Landslide abatement design



EXPERIENCE

West Milford (Chapman) Landslide

Project Location: Harrison County, West Virginia
Completion Date: 2019
Client: WVDEP-AML
Project Description: Landslide abatement design

Roderfield (Simpson) Landslide

Project Location: McDowell County, West Virginia
Completion Date: 2017
Client: WVDEP-AML
Project Description: Landslide abatement design

Scotch Hill Mine Fire

Project Location: Preston County, West Virginia
Completion Date: 2019
Client: WVDEP-AML
Project Description: Mine fire abatement design

Mammoth (Shamblin) Landslide

Project Location: Kanawha County, West Virginia
Completion Date: 2017
Client: WVDEP-AML
Project Description: Landslide abatement design



EXPERIENCE

Delbarton (Curry) Landslide

Project Location: Mingo County, West Virginia
Completion Date: 2019
Client: WVDEP-AML
Project Description: Landslide abatement design

Big Creek (Surgoine) Landslide

Project Location: Logan County, West Virginia
Completion Date: 2019
Client: WVDEP-AML
Project Description: Landslide abatement design

Crooked Run (Davis) Landslide

Project Location: Harrison County, West Virginia
Completion Date: 2017
Client: WVDEP-AML
Project Description: Landslide abatement design

Procious (Doughty) Landslide

Project Location: Clay County, West Virginia
Completion Date: 2017
Client: WVDEP-AML
Project Description: Landslide abatement design



EXPERIENCE

Rivesville (Parker) Landslide

Project Location: Marion County, West Virginia
Completion Date: 2018
Client: WVDEP-AML
Project Description: Landslide abatement design

Bridgeport (Ridgeway) Landslide

Project Location: Harrison County, West Virginia
Completion Date: 2019
Client: WVDEP-AML
Project Description: Landslide abatement design

North Matewan (Ross) Landslide

Project Location: Mingo County, West Virginia
Completion Date: 2019
Client: WVDEP-AML
Project Description: Landslide abatement design

Summerlee Refuse Phase II

Project Location: Fayette County, West Virginia
Completion Date: 2019
Client: WVDEP-AML
Project Description: Refuse and drainage design



EXPERIENCE

Weston (Williams) Landslide

Project Location: Lewis County, West Virginia
Completion Date: Current
Client: WVDEP-AML
Project Description: Landslide abatement design

Smithers Landslide

Project Location: Fayette County, West Virginia
Completion Date: Current
Client: WVDEP-AML
Project Description: Landslide abatement design

Abney Refuse Pile

Project Location: Raleigh County, West Virginia
Completion Date: 2011-2013
Client: WVDEP-AML, Oak Hill, WV
Project Description: Field surveying and mapping, subsurface investigation, design work for refuse regrading, mine seals, and drainage.

Cartright Branch Refuse Pile

Project Location: Logan County, West Virginia
Completion Date: 2011-2012
Client: WVDEP-AML, Charleston, WV
Project Description: Performed survey, drilling, design for refuse regrading and mine drainage control.



EXPERIENCE

Milam Ridge

Project Location: Wyoming County, West Virginia

Completion Date: December 2012

Client: WVDEP-AML, Charleston, WV

Project Description: Performed surveying, drilling and design for numerous mine portals.

Squires Creek (Moats) Portal and Refuse

Project Location: Preston County, West Virginia

Completion Date: December 2014

Client: WVDEP-AML, Bridgeport, WV

Project Description: Performed surveying, drilling and design of refuse area and portals.

Preston Energy/Rockville/Viking Coal Special Reclamation

Project Location: Preston County, West Virginia

Completion Date: October 2015

Client: WVDEP-Special Reclamation, Philippi, WV

Project Description: Performed surveying and design for design of reclamation of portals and piping system to convey mine water to treatment plant.

McGraws Vertical Opening

Project Location: Wyoming County, West Virginia

Completion Date: July 2013

Client: WVDEP-AML, Charleston, WV

Project Description: Performed emergency design for mine shaft cap.



EXPERIENCE

New Cumberland Mine Blowout

Project Location: Hancock County, West Virginia

Completion Date: June 2013

Client: WVDEP-AML, Bridgeport, WV

Project Description: Performed surveying, drilling and design for mine blowout abatement.

Fairview Mine Shaft

Project Location: Marion County, West Virginia

Completion Date: October 2013

Client: WVDEP-AML, Bridgeport, WV

Project Description: Performed emergency design for mine shaft cap.

Whitehall Mine Fire

Project Location: Marion County, West Virginia

Completion Date: October 2013

Client: WVDEP-AML, Bridgeport, WV

Project Description: Performed surveying, drilling and design for extinguishment of mine fire.

Lynch Run Mine Blowout

Project Location: Gilmer County, West Virginia

Completion Date: May 2015

Client: WVDEP-AML, Bridgeport, WV

Project Description: Performed surveying, drilling and emergency design for mine blowout and landslide abatement.



EXPERIENCE

Marsh Run Portals

Project Location: Braxton County, West Virginia

Completion Date: 2013

Client: WVDEP-AML, Charleston, WV

Project Description: Performed survey, drilling and design for mine seals and regrading.

Donnie Thorn Highwall

Project Location: Preston County, West Virginia

Completion Date: 2013

Client: WVDEP-AML, Bridgeport, WV

Project Description: Field surveying and mapping, subsurface investigation, design work for refuse regrading, mine seals, and drainage.

Glen Rogers Emergency

Project Location: Wyoming County, West Virginia

Completion Date: 2012

Client: WVDEP-AML, Charleston, WV

Project Description: Performed survey, drilling, and design for shaft seals.

Morgan #46 Highwall

Project Location: Preston County, West Virginia

Completion Date: 2013

Client: WVDEP-AML, Bridgeport, WV

Project Description: Performed survey and design for refuse and spoil regrading and drainage control.



EXPERIENCE

Thorpe Refuse Pile

Project Location: McDowell County, West Virginia

Completion Date: 2011-2012

Client: WVDEP-AML, Oak Hill, WV

Project Description: Performed survey, drilling, design for refuse and spoil regrading and mine drainage control.

Shinnston Lumberport Subsidence

Project Location: Harrison County, West Virginia

Completion Date: 2010-2012

Client: WVDEP-AML, Philippi, WV

Project Description: Performed site survey, drilling and prepared subsidence abatement design.

Newtown (Kinder) Portals Design

Project Location: Mingo County, West Virginia

Completion Date: 2010-2012

Client: WVDEP-AML, Charleston, WV

Project Description: Performed site survey, and prepared design for portals reclamation and drainage abatement design.

Gordon "C" Refuse Pile

Project Location: Boone County, West Virginia

Completion Date: 2010-2012

Client: WVDEP-AML, Oak Hill, WV

Project Description: Field surveying and mapping, subsurface investigation, design work for mine seals, drainage, and refuse reclamation.



EXPERIENCE

Keaton Branch Complex

Project Location: Raleigh County, West Virginia

Completion Date: 2010-2011

Client: WVDEP-AML, Oak Hill, WV

Project Description: Performed survey, drilling, design for refuse, regrading and mine drainage control.

Dunloup Creek Complex

Project Location: Raleigh County, West Virginia

Completion Date: 2009-2011

Client: WVDEP-AML, Oak Hill, WV

Project Description: Performed survey, drilling, design for refuse and spoil regrading and mine drainage control.

Brownton (McCord) Landslide

Project Location: Barbour County, West Virginia

Completion Date: 2009-2011

Client: WVDEP-AML, Philippi, WV

Project Description: Performed site survey, drilling and prepared landslide abatement design.

Keystone (Avery) Landslide Portal

Project Location: McDowell County, West Virginia

Completion Date: 2009-2011

Client: WVDEP-AML, Charleston, WV

Project Description: Performed site survey and prepared landslide abatement design, portals reclamation, and drainage control.



EXPERIENCE

Dan's Branch (Pennington) Landslide Emergency

Project Location: Mingo County, West Virginia

Completion Date: 2011

Client: WVDEP-AML, Charleston, WV

Project Description: Field surveying and mapping, subsurface investigation, design work for landslide reclamation.

East Bank (Willis) Mine Blowout

Project Location: Kanawha County, West Virginia

Completion Date: 2009

Client: WVDEP-AML, Charleston, WV

Project Description: Field surveying and mapping, design work for mine seal and drainage control.

Island Creek #18 Mine Complex

Project Location: Logan County, West Virginia

Completion Date: 2009-2011

Client: WVDEP-AML, Oak Hill, WV

Project Description: Field surveying and mapping, subsurface investigation, design work for mine seals, drainage, and refuse reclamation.

Jacob's Fork Complex

Project Location: Boone County, West Virginia

Completion Date: 2008-2009

Client: WVDEP-AML, Charleston, WV

Project Description: Field surveying and mapping, subsurface investigation, design work for mine seals, drainage, and reclamation.



EXPERIENCE

Gilmer B Site 3.8

Project Location: Gilmer County, West Virginia

Completion Date: 2008

Client: WVDEP-AML, Charleston, WV

Project Description: Performed survey, drilling, design for refuse and spoil regarding and mine drainage control.

Rhodell Refuse & Portals

Project Location: Wyoming County, West Virginia

Completion Date: 2008

Client: WVDEP-AML, Charleston, WV

Project Description: Performed survey, drilling, design for refuse and spoil regarding and mine drainage control.

Gouge Landslide Emergency

Project Location: Scottown, Ohio

Completion Date: 2007

Client: ODNR-AML, Columbus, OH

Project Description: Performed site survey, drilling and prepared landslide abatement design.

Rodgers Subsidence Emergency

Project Location: Logan County, West Virginia

Completion Date: 2011-2012

Client: WVDEP-AML, Charleston, WV

Project Description: Performed survey, drilling, design for refuse regrading and mine drainage control.



EXPERIENCE

McAdams Subsidence Emergency

Project Location: Stark County, Ohio

Completion Date: 2006

Client: ODNR-AML, Columbus, OH

Project Description: Performed investigation and prepared report of findings.

Athens Rt. 13 Refuse Fire Emergency

Project Location: Athens County, Ohio

Completion Date: 2006

Client: ODNR-AML, Columbus, OH

Project Description: Performed site survey, prepared abatement design and monitored on site construction for fire extinguishment.

Brown Landslide Emergency

Project Location: Rayland, OH

Completion Date: 2007

Client: ODNR-AML, Columbus, OH

Project Description: Performed site survey and prepared landslide abatement design.

Toney Fork Landslide Emergency

Project Location: Boone County, West Virginia

Completion Date: 2006

Client: WVDEP-AML, Charleston, WV

Project Description: Performed site survey, drilling and prepared plans and specifications to stabilize an emergency landslide area.



EXPERIENCE

Lavender Refuse Fire Emergency

Project Location: Meigs County, Ohio
Completion Date: 2005
Client: ODNR-AML, Columbus, OH
Project Description: Performed abatement plan and monitored construction.

Goetz Subsidence Emergency

Project Location: Columbiana County, Ohio
Completion Date: 2005
Client: ODNR-AML, Columbus, OH
Project Description: Performed investigation and prepared report of findings.

Cox Refuse Fire Emergency

Project Location: Gallia County, Ohio
Completion Date: 2005
Client: ODNR-AML, Columbus, OH
Project Description: Performed abatement design for fire extinguishment.

North Matewan (Sipple Drainage)

Project Location: Mingo County, West Virginia
Completion Date: 2005
Client: WVDEP-AML
Project Description: Performed surveying, drilling and design for drainage project abatement.



EXPERIENCE

Phalen Landslide Emergency

Project Location: Martins Ferry, Ohio
Completion Date: 2005
Client: ODNR-AML, Columbus, OH
Project Description: Performed site surveying and landslide abatement design.

Adkins Landslide Emergency

Project Location: Gallia County, Ohio
Completion Date: 2005
Client: ODNR-AML, Columbus, OH
Project Description: Performed surveying, drilling, landslide abatement and construction monitoring.

Baisden Subsidence Emergency

Project Location: Jackson County, Ohio
Completion Date: 2005
Client: ODNR-AML, Columbus, OH
Project Description: Performed drilling to develop subsidence abatement solutions.

Treadway Landslide Emergency

Project Location: Rayland, Ohio
Completion Date: 2004
Client: ODNR-AML, Columbus, OH
Project Description: Performed site surveying, drilling and landslide abatement design.



EXPERIENCE

Big Creek "C" Refuse

Project Location: Logan County, West Virginia

Completion Date: 2004

Client: WVDEP-AML

Project Description: Performed surveying and drilling for design.

Imboden Landslide Emergency

Project Location: Rutland, Ohio

Completion Date: 2004

Client: ODNR-AML, Columbus, OH

Project Description: Performed drilling and surveying to develop landslide abatement solutions and cost estimates.

Parsons Landslide Emergency

Project Location: New Philadelphia, Ohio

Completion Date: 2004

Client: ODNR-AML, Columbus, OH

Project Description: Performed site review and report concerning landslides relation to mining and potential solutions.

Jefferson County Road 26 Landslide Emergency

Project Location: Weinterville, Ohio

Completion Date: 2004

Client: ODNR-AML, Columbus, OH

Project Description: Performed surveying, drilling and prepared plans and specifications to stabilize and emergency landslide area.



EXPERIENCE

Charleston Romeo Landslide

Project Location: Kanawha County, West Virginia

Completion Date: 2004

Client: WVDEP-AML

Project Description: Performed surveying, drilling and design of landslide abatement.

Titus Road Landslide Emergency

Project Location: Rutland, Ohio

Completion Date: 2004

Client: ODNR-AML, Columbus, OH

Project Description: Performed surveying, drilling and prepared plans and specifications to stabilize and emergency landslide area.

Lewis Landslide Emergency

Project Location: Pomeroy, Ohio

Completion Date: 2004

Client: ODNR-AML, Columbus, OH

Project Description: Performed surveying, drilling, prepared plans and specifications to stabilize an emergency landslide area, and provided construction monitoring.

Roush Landslide Emergency

Project Location: Pomeroy, Ohio

Completion Date: 2004

Client: ODNR-AML, Columbus, OH

Project Description: Prepared plans and specifications to stabilize an emergency landslide area.



EXPERIENCE

Moran Subsidence

Project Location: Clinton, Ohio

Completion Date: 2004

Client: ODNR-AML, Columbus, OH

Project Description: Prepared plans and specifications to stabilize an emergency subsidence area.

Ron Bobar Subsidence

Project Location: Flushing, Ohio

Completion Date: 2004

Client: ODNR-AML, Columbus, OH

Project Description: Investigation and report of an emergency subsidence area.

Gooney Otter Refuse

Project Location: Wyoming County, West Virginia

Completion Date: 2004

Client: WVDEP-AML

Project Description: Performed surveying, drilling and site design for refuse regrading project.

Chapmanville (Gorby) Mine Blowout

Project Location: Logan County, West Virginia

Completion Date: 2003

Client: WVDEP-AML

Project Description: Performed surveying, drilling and design of landslide regrading and retaining wall design.



EXPERIENCE

Tuppers Creek (Layne) Landslide

Project Location: Kanawha County, West Virginia

Completion Date: 2003

Client: WVDEP-AML

Project Description: Performed surveying, drilling and design of landslide abatement.

Maidsville (Tennant) Landslide

Project Location: Monongalia County, West Virginia

Completion Date: 2003

Client: WVDEP-AML

Project Description: Performed surveying, drilling and design of landslide abatement.

Whittington Hill (Walker Landslide)

Project Location: Kanawha County, West Virginia

Completion Date: 2002

Client: WVDEP-AML

Project Description: Performed surveying, drilling and design for an emergency landslide.

Minden Refuse Pile Reclamation Project

Project Location: Fayette County, West Virginia

Completion Date: 2001

Client: WVDEP-AML

Project Description: Performed surveying and design for emergency project to upgrade drainage control.



EXPERIENCE

Jeffrey Mine Complex Reclamation Project

Project Location: Boone County, West Virginia

Completion Date: 2001

Client: WVDEP-AML

Project Description: Performed surveying and design regrading refuse.

Hot Coal Reclamation Project

Project Location: Raleigh County, West Virginia

Completion Date: 2000

Client: WVDEP-AML

Project Description: Performed surveying and design for regrading refuse.

Bull Run #27

Project Location: Preston County, West Virginia

Completion Date: 2000

Client: WVDEP-AML

Project Description: Performed surveying and design for regrading refuse.

Rich Fork (Thaxton) Landslide

Project Location: Kanawha County, West Virginia

Completion Date: 2003

Client: WVDEP-AML

Project Description: Performed surveying, drilling and design of landslide abatement.



EXPERIENCE

Riffe Branch Impoundment

Project Location: Fayette County, West Virginia

Completion Date: 2000

Client: WVDEP-AML

Project Description: Performed surveying and design for regrading refuse and drainage control.

Ven's Run Landslide

Project Location: Harrison County, West Virginia

Completion Date: 1999

Client: WVDEP-AML

Project Description: Performed surveying and design for regraded landslide area.

Bull Run #35

Project Location: Preston County, West Virginia

Completion Date: 1999

Client: WVDEP-AML

Project Description: Performed surveying and design for refuse and spoil regrading.

Securro Mine Drainage Site 1 & 2

Project Location: Fairmont, West Virginia

Completion Date: 1998

Client: WVDEP-AML

Project Description: Performed surveying and design for mine drainage system.



EXPERIENCE

Geotechnical/Soil Analysis

Performed geotechnical analysis on 135 projects over the past 20 years. These project involved slope stability, mine pool locations and mine subsidence.

US 35 Design Build: Utilized provided core boring data, coordinated drilling of over 100 additional core borings to design 7.5 miles of 4 lane highway in Putnam County, West Virginia. This included the foundation designs of bridge piers and abutments for 2 bridges carrying the 4 lane roadway over a major stream and an existing roadway.

WVDOT-District 2 Mingo County: Solicited core borings, provided field personnel to log core samples, designed 4 pile retaining walls for landslides effecting existing roadways. Including analyzing piling, lagging and other aspects of each wall. Developed plans with profile, traffic control, estimated quantities, drainage controls, etc. in a bid package suitable for WVDOT to solicit bids.

WVDOT-District 2 Logan County: Solicited core borings, provided field personnel to log core samples, designed 5 pile retaining walls for landslides effecting existing roadways. Including analyzing piling, lagging and other aspects of each wall. Developed plans with profile, traffic control, estimated quantities, drainage controls, etc. in a bid package suitable for WVDOT to solicit bids.

WVDOT-District 2 Lincoln County: Solicited core borings, provided field personnel to log core samples, designed 14 pile retaining walls for landslides effecting existing roadways. Including analyzing piling, lagging and other aspects of each wall. Developed plans with profile, traffic control, estimated quantities, drainage controls, etc. in a bid package suitable for WVDOT to solicit bids.

WVDOT Cottageville Bridge: Solicited bids from drilling contractors, coordinated drilling for a bridge replacement in Jackson and Mason County, West Virginia. The geotechnical testing performed consisted of five hydrometer analysis and rock core compression testing. The design included pile foundations for the piers and abutments, sonar analysis of the creek channel as it relates to the soil materials and slope stability analysis for each abutment.

WVDEP-AML Dans Branch: Performed geotechnical investigation of an AML emergency landslide. Performed core borings and geotechnical testing of soil samples obtained from the borings. Designed pile retaining wall to support embankment and existing home below pre-law mining.

Dempsey Bottom Beam Spam: The subsurface investigation consisted of 6 test borings, all of which encountered bedrock. Four of the core borings were located at the site of the two proposed abutments, while the other two were drilled at the site of the proposed retaining wall. Hollow stem augers were utilized to drill the holes through the overburden. The Standard Penetration Test method utilizing split-spoon sampler was also used to sample the overburden soils.

Guyandotte River Bridge: ELR performed geotechnical design including future mine subsidence remediation for this bridge. During the design process a check of the mining records determined the presence of a coal seam in the vicinity of the bridge. After review of the mine maps and additional drilling, presence of mine voids was confirmed. Using the depths from the ground surface to the mine level a limit of grout protection was developed. The grouting program developed included some down hole camera work and confirmation borings to confirm the grout effectiveness. Grouting of the mine void eliminated the possibility of future mine subsidence in the vicinity of the substructure and allowed the bridge to be supported on conventional caissons.



EXPERIENCE

Hydraulics/Hydrology

E.L. Robinson has worked with various clients, both private firms and public entities, in developing hydrology and hydraulics studies to determine effects that developments would have on floodplains and how they might adversely affect the surrounding communities.

- East Fork Bridge
- South Cuba Bridge
- WV 10 Operational Improvements
 - Jesse Bridge
 - Herndon Slab Bridge
 - Car Wash Bridge
 - Matoaka Bridge No. 1
 - Matoaka Bridge No 2
 - Ssg Gene Arden Vance Jr Memorial Bridge
 - Toney Fork Slab Bridge
 - Road Branch Bridge
 - Beech Branch Bridge
 - Giatto Overpass Bridge
 - Hiawatha Overpass Bridge
 - U.S. Army Sp4 Jackie (Hearn) Mcmillion Memorial Bridge
- Blue Creek Bridge
- Marsh Fork Bridge
- Junior Bridge
- Corridor H – Kerens to Parsons
 - Baldlick Fork Bridge (Bridge #1)
 - Panther Run Bridge (Bridge #2)
 - South Branch of Haddix Run Bridge (Bridge #3)
 - Unnamed Trib of Haddix Run Bridge (Bridge #4)
 - Bridge over Haddix Run and US 219 (Bridge #5)
- Cherry Tree Bridge
- Laurel Creek Girder Bridge



EXPERIENCE

Aerial Photography/Mapping

E.L. Robinson Engineering has worked with various clients to develop contour mapping of sites and areas that otherwise could not be determined. With the use of aerial photography and state of the art technology, ELR has developed maps from photographs for numerous projects including but not limited to:

- City of Beckley
- City of Charleston
- Corridor D
- Corridor H
- Cross Lanes Connector
- Eldora
- Frazier's Bottom
- Glenwood
- Hatfield Cemetery
- I-70 Washington Avenue (Wheeling, WV)
- I-64 Glade Creek
- Jackson Mill
- King Coal
- KY 40 Connector
- Logan Run
- New River Parkway
- Ohio River Crossing
- Pinegrove
- Parkersburg
- Powell Creek
- Prince
- PSI-Baker/Ft. Henry Bridges
- Racetrack
- White Sulphur Springs



Aerial Photography/Mapping

E.L. Robinson Engineering has completed the preliminary mapping for the WVDEP for all of the AML projects located in Northern West Virginia since 2012. In addition, ELR has completed either preliminary or final mapping for the following:

2003-Present

All ELR AML Projects WV and OH

2002

Community of Preston

Rhodell Refuse Portals

Vivian Refuse Maintenance

Glen Rogers Waterline

Sundial (Hatfield) Refuse Pile

Jacob Fork Complex

Thomas (NE) Subsidence

2001

Bartley Mine Dump

Beckley Soccer Complex

Holden Portals/Structures

Jeffrey Complex

Minden Refuse Drainage

Roach Branch Refuse

Sauls Run Strip

Stonecoal Creek Complex

Waterline Photography

Weaver Portals/Mine Drain

2000

Micajah Refuse Pile

McAlphin Eroding Dump

Flemington Portals/Drainage

Minden "C" Refuse Pile

National Mine Complex

Linger Clogged Stream

Hotcoal Mine Dump

Layton Mine Drainage

Quintain Development

1999

Bull Run #27

8th Street-Warwood Avenue

Mable Highwall

Coal Branch

Matoaka Subsidence

Elkins Coal

Springton Refuse

Veins Run

1998

Bull Run #35

Fickey Run

1997

Browns Creek

Marrowbone

Matewan

Pigeon Creek

ERIC COBERLY, P.E.

Project Manager



Education

M.S. Engineering of Mines,
West Virginia University,
1990

B.S. Engineering of Mines,
West Virginia University,
1983

Registrations

Registered Professional
Engineer in West Virginia,
Ohio, and Maryland

Professional Experience

Mr. Coberly has more than 35 years of experience as an infrastructure and mining engineer. He has extensive experience in project planning, funding coordination and design. Mr. Coberly has managed projects with ELR which have involved site development, infrastructure planning, water, sewer, geotechnical analysis, abandoned mine reclamation projects, building construction, active surface mining projects, insurance investigations, providing expert witness services and various post mining land use projects.

Additionally, Mr. Coberly served as the Chief for the West Virginia Department of Environmental Protection Abandoned Mine Lands Division for more than 4 years. In this position he was responsible for managing and directing all operations. He has spent his career working to better the State of West Virginia in both the private and public sectors.

Representative Projects

Mr. Coberly has served as Project Manager on hundreds of infrastructure, geotechnical, site development and mining projects. The following is a sample listing of Mr. Coberly's AML projects:

- Squires Creek (Moats) Portal and Refuse
- Red Warrior Gob & Slide
- Glen Alum Complex
- West Columbia B
- Milam Ridge Refuse Pile
- Carson One Special Reclamation Project
- Preston Energy/Rockville/Viking Coal Rec
- North Matewan (Akers) Landslide
- Branchland (Blankenship) Landslide
- Coburns Creek Landslide
- McGraws Vertical Opening
- New Cumberland Mine Blowout
- Fairview Mine Shaft
- Whitehall Mine Fire
- Sauls Run Landslide
- Missouri Fork Landslide
- Worthington (Hess) Landslide
- Copen Road Landslide
- Lynch Run Mine Blowout
- Dans Branch (Dillon) Landslide
- Marsh Run Portals
- Donnie Thorn Highwall
- Vickers Branch (Butcher) Drainage

EDWARD ROBINSON, P.E., P.S.

President



Education

M.S. Civil Engineering,
University of West Virginia
Graduate Studies, 1981

B.S. Civil Engineering,
West Virginia Institute of
Technology, 1969

Registrations

Registered Professional
Engineer in West Virginia,
Ohio, Kentucky, Virginia and
North Carolina

Registered Professional
Surveyor in West Virginia

Professional Experience

In 1978, Mr. Robinson founded E.L. Robinson Engineering with only four employees. Under his leadership, ELR has grown exponentially to what it is today – a highly diversified engineering and surveying firm with 170 full time, experienced professionals and support personnel. ELR, which was a small surveying firm at its inception, now offers a complete range of services, including construction management, transportation engineering, utilities engineering, geotechnical engineering, surveying and technology, land planning and landscape architecture, bridge and structural engineering, and site development.

Mr. Robinson is committed to quality engineering services and complete customer service. He recognizes the importance of every client he has interacted with and every staff member he has invested in. From holding sole ownership, Mr. Robinson converted ELR to an employee owned company through the Employee Stock Ownership Plan (ESOP).

Professional Memberships

National Society of Professional Engineers

American Society of Civil Engineers

Offices Held

Current Chairman of WVUIT Advisory Board

President of West Virginia Council of Consulting Engineers

Chairman Transportation Committee - WV Association of Consulting Engineers

State Director of West Virginia Society of Professional Engineers

President of West Virginia Society of Professional Engineers

Assistant Treasurer of the American Society of Civil Engineers

National Director of the ASCE representing WV, NC, SC and VA

President of West Virginia Section of ASCE

Honors Awarded

Alumnus of the Year – West Virginia University Institute of Technology, 1992

Engineer of the Year – West Virginia Society of Professional Engineers, 1997

Engineer of the Year – American Society of Civil Engineers, 1998

National Entrepreneur of the Year Finalist – Ernst & Young, 2001

Engineering Entrepreneur of the Year – Ernst & Young, 2001

Honorary PhD, Doctor of Science – West Virginia Institute of Technology 2002

West Virginia Section - ASHE - Man of the Year - 2010

TIM CART, P.E.

Project Engineer



Education

B.S. Civil Engineering, West Virginia University, 1981

Registrations

Registered Professional Engineer in West Virginia

Registered Professional Surveyor in West Virginia

Professional Experience

Mr. Cart has more than 37 years of experience in providing consulting engineering services. Clients served have included industrial, public and private institutions along with state and federal agencies. He has served as Project Engineer on numerous geotechnical investigations including highways, bridges, industrial sites, buildings and site development projects.

Mr. Cart has served as project manager, project engineer and lead geotechnical investigator on numerous geotechnical projects including highways, bridges, industrial sites, buildings and various developments.

Mr. Cart has designed numerous retaining structures and grading plans to reduce the likelihood of future landslide movement. He has also designed retaining walls including reinforced concrete cantilever walls, mechanically stabilized earth (MSE) walls, sheet pile walls, H-pile and lagging walls. Several of these designs included the use of rock anchors and tiebacks.

Geotechnical reports for highway projects included recommendations for rock cut slopes and fill slopes, as well as types of foundation systems for structures and recommended bearing capacities for deep and shallow foundations. Mr. Cart has made design recommendation for fill construction which focused on fill settlement and recommended methods to accelerate consolidation settlements so that the settlement would occur during the construction activities.

Mr. Cart has served as project engineer on several hundred AML projects for the WVDEP and USOSMRE. These projects include regrading major refuse piles into stable configurations, draining mine portals, stabilization of areas affected by mine subsidence, evaluation of areas for possible effects on structures due to mine subsidence, and the developing of plans and specifications to address landslides which have resulted from mining related activities.

Mr. Cart has also designed numerous bank stabilization projects for river banks throughout the state. These projects incorporated re-grading, rip-rap materials, cantilever and tieback wall designs. He has also performed numerous damage investigations for landslide and blast damage claims for insurance and law firms and has provided testimony in depositions and law suits.

Representative Projects

- Lavalette Widening Project
- I-77 Bridges- Surface Drive Overpass Bridges
- Corridor H - Kerens to Parsons Design Build
- Tupper Creek-Pocatalico Bridges
- Corridor H - Old Fields to Moorefield
- US 35 - Lower Five Mile Creek to Three Mile Creek
- US 35 - WV 34 to Buffalo Bridge Design Build
- WVDOH District 2 FEMA Emergency Landslides (35 Projects)
- WVDOH District 1 FEMA Emergency Landslides (9 Projects)

MARK MCGETTIGAN, P.E.

Project Engineer



Education

M.S. Engineering
Management/Environmental
Engineering, Marshall
University, 2007

B.S. Civil Engineering
Technology, Fairmont State
College, 1999

Registrations

Registered Professional
Engineer in West Virginia

Professional Experience

Mr. McGettigan has more than 21 years of experience in providing consulting engineering services. He has worked on numerous land development and commercial building construction projects where his duties included procuring all necessary permits to designing potable water, sanitary sewer and storm sewer connections to development lots and commercial properties.

Mr. McGettigan has also served as project manager for numerous water and wastewater projects throughout West Virginia. He has secured funding, designed, obtained permitting and managed the construction for numerous water and sanitary sewer projects totaling well over \$60,000,000. Further, he has successfully worked on or managed numerous Phase I and Phase II ground water quality investigations and feasibility studies and reclamation projects for the West Virginia Department of Environmental Protection Abandoned Mine Lands program.

Representative Projects

- Twisted Gun Recreational Area Development Water Extension Project
- Mingo County PSD Emergency Intake Construction Project
- Mingo County PSD Beech Creek Water Main Extension Project
- Mingo County PSD Ben Creek Phase I
- Mingo County PSD Ben Creek Phase II
- Mingo County PSD Marrowbone Waterline Extension Project
- Mingo County PSD Jennies Creek Waterline Extension Project
- Dingess Water Distribution System Extension Phase I
- Dingess Water Distribution System Extension Phase II
- Crocket Miller Fork Waterline Extension Project
- Nestlow Water Project Phase I
- Nestlow Water Project Phase II
- Route 37 Water Extension Project
- Crum PSD Route 152 Phase I Water Project
- Crum PSD Route 152 Phase II Water Project
- Lavalette Water Storage Tank
- WVDNR Pipestem and Beech Fork Campgrounds
- North Landbay Phase I Infrastructure Project
- South Landbay Phase I Infrastructure Project
- Approximately 40 AML project designs including numerous waterline feasibility studies

RICHARD WATTS, P.G.

Project Geologist



Education

M.S. Geography, Marshall University, 1994

B.S. Geology, Marshall University, 1977

Registrations

Registered Professional Geologist in Virginia and Kentucky

Professional Experience

Mr. Watts has 42 years of experience in providing consulting services as a senior geologist. He has also served as project manager on numerous projects.

Mr. Watts is primarily an engineering geologist whose range of project experience has encompassed numerous projects concerning geologic investigation, rock and soils engineering, landslides, abandoned mine land reclamation, forensic damage investigations, hydrogeology and the coal industry.

Mr. Watts' AML experience includes over 100 projects spanning more than 33 years. He has served as both Project Manager and Designer for these projects. Further, he is proficient in field reconnaissance and drilling.

He has performed hundreds of slope stability analyses for landslides and other projects involving the design of stable slopes. In addition, he has performed several studies involving landslide prediction to aid clients in land use and safety planning. Projects involving rock slope stability have included high rock cuts for surface mining operations and highways.

His geotechnical experience has included numerous projects involving soils, foundations, landfills and damage studies. These projects have encompassed such areas as pile driving, caisson installation, earth fill placement, subsurface exploration, site reconnaissance, grout and concrete placement and quality control.

Representative Projects

- WVDEP - Carswell
- WVDEP - Prenter Road Waterline Feasibility
- WVDEP - Jolo/Paynesville/Wolfpen
- WVDEP - Swiss Drennan Areas, Gauley River
- WVDEP - Coal Mountain Waterline Feasibility
- WVDEP - Hanover Waterline Feasibility
- WVDEP - Brownston Landslide
- Huntington Mall, Barboursville, WV
- Best Buy, Barboursville, WV
- Fiesta Bravo Restaurant, Barboursville, WV
- McDonalds, Gilbert, WV
- Numerous Cell Phone Towers Cites
- Marshall University - Corbly Hall
- WVDOH - Five Landslides, Charleston, WV
- WVDOH - I-79 Landslide
- WVDEP - New River Gorge Landslide

JOHN KELLY

Project Designer



Education

B.S. Civil Engineering, West Virginia University, 1998

Professional Experience

Mr. Kelly has more than 20 years of experience as an engineer and principal production person for numerous mine reclamation projects in West Virginia, Ohio and Maryland. He has experience specifically in the design of several abandoned mine land reclamation projects. These projects include large refuse pile grading, hydraulic calculations, design of drainage structures, retaining wall design, permitting (including NPDES, USACOE, Highway Department), and construction cost estimates. Mr. Kelly has assisted in the completion of waterline feasibility studies in various areas. Further, he has worked on waterline extensions and sewer collection systems including providing service to many residential as well as industrial customers.

Representative Projects

- Dunloup Creek Complex
- Jacobs Fork
- Bull Run #27
- Gilmer B
- Thorpe Refuse
- Milam Ridge Refuse
- Brownnton Landslide
- Abney Refuse
- Gordon C Refuse
- West Columbia B
- East Bank Emergency
- Rhodell Refuse
- Lewis Landslide
- Gouge Landslide
- Maryland Shallmar Landslide Emergency
- Maryland Scenic Railroad Landslide
- Red Warrior Gob & Slide
- North Matewan (Akers) Landslide
- Branchland (Blankenship) Landslide
- Coburns Creek Landslide

GARY WORKMAN

Project Designer



Education

Drafting CADD Certificate
Carver Career and Technical
Center, 1986

Professional Experience

Mr. Workman has more than 31 years of experience as an Auto CAD designer with an emphasis on infrastructure and mine reclamation projects. He has experience specifically in the design of several abandoned mine land reclamation projects. These projects include large refuse pile grading, design of drainage structures, retaining wall design, permitting (including NPDES, USACOE, Highway Department), and construction cost estimates. Additionally, Mr. Workman has assisted in the completion of waterline feasibility studies in various areas. Mr. Workman has worked on waterline extensions and sewer collection systems that have provided service to many residential and industrial customers.

Representative Projects

- McGraws Shaft
- Dunloup Creek Complex
- Gilmer B
- Glen Rogers Emergency
- Marsh Run
- Milam Ridge Refuse
- Brownston Landslide
- Abney Refuse
- Gordon C Refuse
- West Columbia B
- East Bank Emergency
- Barkers Ridge Water Study
- Fayette Water Studies
- Covell Water Study
- Barkers Ridge Water Project
- Marsh Fork Water Project
- Otsego Water Project
- Big Hearts Creek Water Project
- Covell Water Project
- Gooney Otter
- Otsego Water Study

TODD GARNES

Project Designer



Education

A.A.S. Architectural Drafting
Technology

West Virginia State College,
1999

A.A.S. Computer Aided
Drafting and Design

West Virginia State College,
1999

Professional Experience

Mr. Garnes has more than 19 years of experience as a civil draftsman and designer. He is proficient in numerous drafting and mapping software platforms. His proficiency spans multiple areas such as Civil 3D, GIS, construction inspection, waterline planning and design, sanitary sewer planning and design, site development, cathodic protection planning, county-wide planning, infrastructure cataloging, and document preparation.

Representative Projects

- Village of Rio Grande Wastewater System Improvements and Wastewater Treatment Plant
- Camp Caesar Infrastructure Improvements Project
- Doddridge County PSD 2015 County Wide Water Study
- Pocahontas County PSD: Cheat Mountain Water Acquisition; Dominion Waterline Extension
- Village of Cadiz Water System Improvements Project
- Bluefield Commercialization Station
- WVDNR North Bend State Park Waterline Extension
- Rahall Transportation Institute Land Use Master Plans – Boone, Clay, Fayette, Lincoln, Logan, McDowell, Mercer, Wayne, Wyoming, Raleigh, Upshur, Webster, and Marshall Counties
- Webster County PSD Bergoo Wastewater System and Wastewater Treatment Plant Improvement
- Town of Gilbert: Slabtown, Tamcliff and Paynter Bottom Waterline Extension Project; Horsepen, Gilbert Creek and Browning Fork Waterline Extension; River Bend Road Waterline Extension; Upper Gilbert Creek Waterline Extension
- Logan County PSD: Upper Little Harts Creek Waterline Extension; Big Harts Creek Waterline Extension; Marsh Fork Waterline Extension; Hidden Valley/Airport Road Waterline Extension; Ridgeview Sewer – Railroad Permits
- Lincoln EDA Lower Mud River Waterline Extension
- Town of Chapmanville Water Upgrade Project
- City of Charleston Lee Street Sidewalk Enhancements
- King Coal Highway Water and Sewer Project
- Putnam County Business Park Utilities Extension Project
- Norton Harding Jimtown PSD Scott Run/Findley Road Waterline Extension Project

TOM RAYBURN, P.S.

Manager of Surveying



Education

A.S. Mechanical Engineering,
West Virginia Institute of
Technology, 1970

Registrations

Registered Professional
Surveyor in West Virginia,
Kentucky, North Carolina

Professional Experience

Mr. Rayburn currently serves as Manager of Surveying for E.L. Robinson Engineering and has more than 30 years of design surveying and construction surveying experience. His responsibilities include management of surveying and control for various design projects, including highways, buildings, and bridges. In addition, Mr. Rayburn manages and performs work consisting of courthouse research for property ownership resolution for the above mentioned project types. This includes preparation of property resolution maps, deed descriptions for property acquisitions required for project plan preparation. Mr. Rayburn has experience in Geodetic Control Surveys, 3D Laser Scanning, Photogrammetric Control, Topographic Surveys, Cemetery Surveys, Boundary Surveys, Construction Stakeout, Subdivision Surveys, along with Hydrographic surveys of river and lake bottoms. A few of the more notable surveying projects performed by ELR under the supervision of Mr. Rayburn, have been the Blennerhassett Bridge Project, 11 continuous miles of Corridor H design surveys, GPS Control for the West Virginia Statewide Mapping and Addressing PSD Project, 3D Laser Scan and mapping of the CAMC Parking Garage partial collapse, and 3D Laser Scanning of I64/I77 Retaining Wall for Monitoring.

Representative Projects

- WVDOH Wellsburg Bridge Project
- WVDOH I-81 Widening Project
- WVDOH I-79 Flatwoods
- WVDOH I-70 Mining Project
- Corridor H Kerens to US 219 Connector
- WVDOH I-70 Mining Project
- WVDOH WV Route 10 Operational Improvements
- Mingo County Redevelopment Wood Park WVDOH Access Road ROW Plans
- Logan County Commission Building Elevator and Stairway Project- Logan, WV
- WVDOH WV Route 10 Operational Improvements
- Chief Logan Recreational Center- Logan, WV
- Forks of Coal Site Development
- Logan County Commission /WVANG C130 Camp Branch Landing Zone
- WVDOH Median Improvement Surveys I-64 and I-77
- Surveys for Huntington Tri-State Airport Improvements
- Huntington Federal Building/USACOE Seven Floor Reconstruction Surveys
- WVDOH / Modjesky and Masters New River Parkway Highway Design Surveys
- Moses Auto Group 5.5 Acre ALTA Survey South Charleston, WV
- Galipolis Ohio Waterfront Survey

HEATHER WOODS-SHAFFER

Construction Inspection Manager



Certifications

West Virginia Division of Highways Portland Cement Concrete Technician

West Virginia Division of Highways Portland Cement Concrete Inspector

West Virginia Division of Highways Aggregate Sampling Inspector

West Virginia Division of Highways Compaction Inspector

WV Transportation Engineering Technician Certification Level III

OSHA 10-hour Occupational Safety & Health Training Course

OSHA 30-hour Occupational Safety & Health Training Course in Construction

First Aid/CPR - Adult/AED/ Blood Borne Pathogens Training

Safe Gulf/Safe Land USA

Professional Experience

Mrs. Woods-Shaffer has 27 years experience in all phases of construction projects. Mrs. Woods-Shaffer has managed numerous WV highway and bridge projects throughout the state and has extensive knowledge in all aspects of the construction process. For nearly 15 years, she has worked as E.L. Robinson's Construction Inspection Manager/Safety Officer. As the Construction Inspection Manager her duties include the management of all construction inspection operations; estimation, preparation and securing of construction inspection and material testing projects throughout the State of West Virginia; assignment of personnel, preparation of invoices for reimbursement, coordination and communication between field inspectors, designers, contractors and clients; approval of sub contractor and vendor invoices, material and cost tracking; and ensuring that ELR has a core group of inspectors capable of handling all future assignments.

Further, Mrs. Woods-Shaffer serves as ELR's Safety Officer. Her duties include the evaluation and monitoring of safety protocols and guidelines associated with ELR's day to day construction/oil and gas operations; orientation and education of new construction hires regarding ELR's safety policies along with planning and facilitating required annual occupational health and safety training programs for all employees; selecting, ordering and training employees on the appropriate PPE use and care; and conducting accident and incident investigations, along with reporting accident statistics, running OSHA audits and providing corrective action recommendations.

Representative Projects

- Corridor H Kerens to US 219 Connector
- Junior Bridge, Junior, WV
- Harmon Creek Bridge, Weirton, WV
- Various WVDOH Statewide contracts
- Cottageville T-Beam Bridge, Cottageville, WV
- South Fork Lee Exxon Bridge, Lubeck, WV
- -77 Bridges: Surface Drive Overpass Bridges, Sissonville, WV
- McQuain Brothers Bridge, Clendenin, WV
- US Route 35 Design Build (CR 34 - Hurricane Creek), Winfield, WV
- US Route 35 Couch to Little Five Mile, Mason, WV
- Big Tyler Widening Project, Cross Lanes, WV
- Corridor D Ballfield relocation, Parkersburg, WV
- Corridor D Soccer field complex, Parkersburg, WV
- Garden Ground Highwall Phase II, Beckley, WV
- Hamlin Public Service District, Hamlin, WV

AMC AND RELATED PROJECT EXPERIENCE MATRIX																								
PROJECT	Experience Basis Corporate-C Personal-P	Additional Information in Section	PROJECT EXPERIENCE													Primary Staff Participation								
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrological/Hydraulic Design/Eval	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspector/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Ed Robinson, P.E.	Eric Coberly	Tim Cart, P.E.	Richard W. Watts, P.G.	Mark McGittigan, P.E.	John Kelly, E.I.	J.D. Kinder, P.E.
Jacob's Fork Complex	C	YES		X	X	X				X					X	X	M	P		P	P			
Rhodell Refuse & Portals	C	YES		X	X	X				X					X	X	M		P		P	P		
Gilmer B Sites 3-9	C	YES		X	X	X				X					X	X	M		P		P	P		
Morrisvale/Cameo/Big Horse Creek Waterline Feasibility Study	C	YES									X						M		P		P	P		
Camp Creek Waterline Feasibility Study	C	YES									X						M		P		P	P		
Lick Creek Waterline Feasibility Study	C	YES									X						M		P		P	P		
Ragland Waterline Feasibility Study	C	YES									X						M	P	P		P	P		
Beech Creek and Ben II Waterline Feasibility Study	C	YES									X						M		P		P	P		
Dingess Waterline Feasibility Study	C	YES									X						M	P	P		P	P		
Sharon Heights Waterline Feasibility Study	C	YES									X						M	P	P		P			
Amherstdale Water Feasibility Study	C	YES									X						M	P	P		P	P		
Mercer County Commission Danese PSD Waterline Feasibility Study	C	YES									X						M	P	P		P	P		
New Haven Waterline Feasibility	C	YES									X						M	P	P		P	P		
Nubbin Ridge/Camp Creek Waterline Feasibility Study	C	YES									X						M		P		P			
Bramwell Hill Waterline Feasibility Study	C	YES									X						M		P		P	P		
Coaldale and Coaldale Mountain Waterline Feasibility Study	C	YES									X						M		P		P	P		
Jennie Creek Waterline Feasibility Study	C	YES									X						M		P		P			
Beech Creek and Ben Area Waterline Feasibility Study	C	YES									X						M		P		P	P		
Blair/Sharples Area Waterline Feasibility Study	C	YES									X						M		P		P	P		
Brown's Creek #10	C	YES	X	X	X	X	X			X			X	X	X	X	M		P					
Bull Run #35	C	YES	X	X	X	X	X			X	X		X	X	X	X	M		P					
Securo Mine Drainage	C	YES	X	X	X	X	X			X			X	X	X	X	M		P				P	
Fickey Run	C	YES	X	X	X	X	X			X	X		X		X		M		P				P	
Ven's Run	C	YES	X			X				X						X	M		P				P	
Bull Run #27	C	YES	X	X	X	X	X			X	X		X		X	X	M		P				P	
Riffe Branch	C	YES	X	X	X	X	X			X	X		X		X	X	M		P				P	
Hot Coal	C	YES		X	X	X	X			X					X	X	M		P				P	
Minden Refuse Pile	C	YES		X		X				X					X		M		P				P	
Jeffrey Mine Complex	C	YES		X	X	X	X			X					X		M		P				P	
Pigeon Creek Waterline	C	YES				X				X	X	X					M		P				P	

PROJECT		Experience Basis Corporate-C Personal-P	Additional Information in Section	PROJECT EXPERIENCE														Primary Staff Participation						
				Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrological/Hydraulic Design/Eval	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspector/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Ed Robinson, P E	Eric Coberly	Tim Cart, P E	Richard W Watts, P G	Mark McGoffigan, P E	John Kelly E I
Red Jacket, Matewan, Newtown Waterline	C	YES				X				X	X						M		P		P	P		
Marrowbone Waterline	C	YES				X				X	X	X					M		P		P	P		
Mount Zion Waterline	C	YES				X				X	X						M		P		P	P		
Coopers Rock, Pisgah and Laurel Run Waterline	C	YES				X				X	X						M		P		P	P		
Davis Water Tank	C	YES				X				X	X						M		P		P	P		
Whittington Hill (Walker)Slide	C	YES		X	X	X				X						X	M	P/M	P		P	P		
Maidsville Landslide	C	YES	X							X						X	M	P	P		P	P		
Rich Fork Landslide	C	YES	X	X						X						X	M	P	P		P	P		
Tuoppers Creek Landslide	C	YES	X	X						X						X	M	P	P		P	P		
Glen Rogers Waterline	C	YES				X				X	X						M	P	P		P	P		
Gooney Otter Refuse	C	YES	X	X	X	X	X			X						X	M	P	P		P	P		
Chapmanville Mine Blowout	C	YES								X							M	P	P		P	P		
Charleston Romeo Landslide	C	YES		X	X	X				X						X	M	P	P		P	P		
Big Creek C Refuse	C	YES		X						X						X	M	P	P		P	P		
North Matewan Sipple	C	YES		X	X	X				X						X	M	P	P		P	P		
Moran Subsidence	C	YES		X					X								M	P	P		P	P		
Lewis Landslide	C	YES		X		X				X							M	P	P		P	P		
Roush Landslide	C	YES		X		X				X		X				X	M	P	P		P	P		
Jefferson 26 Landslide	C	YES		X		X				X		X				X	M	P	P		P	P		
Titus Road Landslide	C	YES	X	X		X				X						X	M	P	P		P	P		
Imboden Landslide	C	YES	X	X												X	M	P	P		P	P		
Balsden Subsidence	C	YES		X					X							X	M	P	P		P	P		
Parsons Landslide	C	YES		X												X	M	P	P		P	P		
Treadway Landslide	C	YES	X	X		X				X						X	M	P	P		P	P		
Phalen Landslide	C	YES		X		X				X						X	M	P	P		P	P		
Adkins Landslide	C	YES	X	X		X				X						X	M	P	P		P	P		
Goetz Subsidence	C	YES		X					X							X	M	P	P		P	P		
Lavender Refuse Fire	C	YES		X						X							M	P			P	P		
Cox Refuse Fire	C	YES		X					X			X					M	P			P	P		
Toney Fork Landslide	C	YES		X		X				X			X				M	P	P		P	P		
Athens Rt. 13 Refuse Fire	C	YES		X				X		X		X					M	P	P		P	P		
McAdams Subsidence Ermei	C	YES		X					X								M	P	P		P	P		
Rodgers Subsidence	C	YES		X					X			X					M	P	P		P	P		
Brown Landslide	C	YES		X		X				X							M	P	P		P	P		
Town Run	P	NO									X						M	P	P		P	P		
Witcher Creek	P	NO									X													
Pond Gap, Hitop & Spangler	P	NO									X													
Elk City	P	NO									X													
Little Fork Refuse Pile	P			X		X	X	X							X	X				P				
OSM-Tackett Fork	P		X	X	X	X										X			P	P	P			
OSM-Ironton	P			X		X										X			P	P	P			
OSM-Williamson LS	P			X		X						X				X			P	P	P			
OSM-Ray Landslide	P			X												X			P	P	P			
OSM-Spence Landslide	P			X		X										X			P	P	P			
OSM-Ratiff Landslide	P			X		X										X			P	P	P			
OSM-Pigeon Roost LS	P			X		X										X			P	P	P			
OSM-Oak Hill Subsidence	P			X	X	X			X	X						X			P	P	P			

AML and RELATED PROJECT EXPERIENCE MATRIX

PROJECT	Experience Basis Corporate-C Personal-P	Additional Information in Section	PROJECT EXPERIENCE														Primary Staff Participation								
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrological/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	M.Mgmt							
																		Ed Robinson, P E	Eric Coberly	Tim Cart, P E	Richard W. Watts, P G	Mark McGettigan, P E	John Kelly E I	J D Kinder, P E	Gary A Workman, CADD
Thorpe Refuse Pile	C	2011		X	X	X				X									P	P				P	
Glen Rogers Emergency	C	2012		X	X	X				X										P	P				P
Abney Refuse Piles	C	2012		X	X	X				X										P	P				P
Milam Ridge Refuse	C	2012		X	X	X				X										P	P				P
West Columbia "B"	C	2012		X	X	X				X										P	P				P
Coburn Invest	P			X						X								X			P				
Gouge Landslide	P		X			X				X		X						X			P				
Adamsville	P		X	X	X	X			X		X									P					
Mount Pisgah	P		X			X				X		X								P					
Pleasant Valley Church	P			X	X	X				X		X								P					
Hodgesville B	P			X	X	X				X		X								P					
Lynch Chapel	P			X	X	X				X		X		X						P					
Snider Portals	P			X	X	X				X		X			X					P					
Wash Run	P			X	X	X				X		X								P					
Junior Sewage Plant	P		X	X	X	X				X	X	X								P					
Shavers Fork/Stonecoal	P			X	X	X				X	X	X								P					
Vargo Drainage	P			X	X	X				X	X	X								P					
Fairhills Plaza Subsidence	P			X					X		X									P					
Karen Vance AMD	P		X	X	X	X				X		X								P					
Leroy Wilmoth Drainage	P			X	X	X				X		X								P					
Big Knob Acid Mine Drainage	P		X	X	X	X				X	X	X	X							P					
Matthew Smith Subsidence	P			X		X				X		X								P					
Worthington Portals	P		X	X	X	X				X		X								P					
Red Rock Drainage	P		X	X	X	X				X		X								P					
Blackwater Manor	P		X	X	X	X	X			X	X		X	X						P					
Buckhannon River Refuse	P			X	X	X	X			X		X								P					
Hutcheson AMD	P			X	X	X				X		X			X					P					
Nutter Fort Trestle -7th	P			X	X	X				X		X								P					
East Bank Portals - A# 2	P			X	X	X				X		X								P					
Manilla Creek - A#2	P			X	X	X				X		X								P					
Big Creek C	P			X	X	X				X		X					X			P					
Covey Creek Refuse	P			X	X	X				X		X								P					
Omar Drainage G2	P			X	X	X				X		X								P					
Crooked Ck Refuse & Portals	P			X	X	X				X		X			X					P					
Jims Br. (Tyree) LS	P			X	X	X				X		X						X		P					
Galloway Mine Portal/Refuse	P			X	X	X				X		X						X		P					
Newtown (Harmon) Drainage	P			X	X	X				X		X				X		X		P					
Whitman Ck (Williams) VO	P			X	X	X				X		X								P					
Coal Branch (Cantrell)	P			X	X	X				X		X								P					
Jordanville Tipple/Refuse	P		X		X	X				X		X			X					P					
Heizer Creek A Maintenance	P			X	X	X				X		X								P					
Orlando Mining Facility	P		X		X	X				X		X			X					P					
Verdunville Drainage	P			X	X	X				X		X								P					
Holden Portals	P			X	X	X				X		X								P					
Moliner Subsidence	P			X					X		X							X		P/M					
Smith Landslide	P		X	X	X	X				X		X						X		P/M					
Lutz Vertical Opening	P			X	X					X		X								P/M					
Swiger Mine Blowout	P			X	X	X				X		X					X			P/M					

AML and RELATED PROJECT EXPERIENCE MATRIX

PROJECT	Experience Basis Corporate-C Personal-P	Additional Information in Section	PROJECT EXPERIENCE														Primary Staff Participation M=Major P=Minor								
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrological/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	Ed Robinson, P.E.	Eric Cotlarly	Tim Cart, P.E.	Richard W Watts, P.G.	Mark McGattigan, P.E.	John Kelly, E.I.	J. D. Kinder, P.E.	Gary A. Workman, CADD
			Mary Ruth Spec Reclamation	C		X	X		X				X	X		X				M	P	P	P		
Sauls Run Bennett Landslide	C		X			X				X						X	M	P	P	P			P		
Shaffer Investigation	C			X				X									M	P	P	P			P		
West Milford Landslide Emer	C		X			X				X						X	M	P	P	P			P		
Roderfield Landslide Emer	C			X	X	X				X						X	M	P	P	P			P		
Scotch Hill Mine Fire	C		X	X				X		X						X	M	P	P	P			P		
Mammoth(Shamin) Landslide	C			X	X	X				X						X	M	P	P	P			P		
Delbarton (Curry) Landslide	C			X		X				X						X	M	P	P	P			P		
Big Creek (Surgoine) Landslide	C			X	X	X				X						X	M	P	P	P			P	P	
Crooked Run (Davis) Landslide	C			X		X				X						X	M	P	P	P			P	P	
Prociuous (Doughty) Landslide	C			X		X				X						X	M	P	P	P			P		
Rivesville (Parker) Landslide	C			X		X				X						X	M	P	P	P			P	P	
Bridgeport (Ridgeway) Landslide	C			X		X				X						X	M	P	P	P			P	P	
North Metewan (Ross) Landslide	C			X		X				X						X	M	P	P	P			P	P	
Verdonville (Spry) Drainage	C			X		X				X						X	M	P	P	P			P	P	
Summerte Refuse Phase II	C			X		X				X						X	M	P	P	P			P	P	
Weston (Williams) Landslide	C		X	X		X				X						X	M	P	P	P			P	P	
Smithers Landslide	C		X			X				X						X	M	P	P	P			P	P	
Camden (Wilson) Landslide	C		X			X				X						X	M	P	P	P			P	P	
Rockhouse Fork Burning Refuse	C					X				X						X	M	P	P	P			P	P	
Witcher Creek (Moeker) Landslide	C		X			X				X						X	M	P	P	P			P	P	



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

State of West Virginia
 Centralized Expression of Interest
 02 - Architect/Engr

Proc Folder: 755110

Doc Description: EOI - Sardis (Saas) Landslide Project Harrison County, WV

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2020-07-29	2020-09-03 13:30:00	CEOI 0313 DEP2100000001	1

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR
 Vendor Name, Address and Telephone Number:

FOR INFORMATION CONTACT THE BUYER
 Guy Nisbet
 (304) 558-2596
 guy.l.nisbet@wv.gov

Signature X *EJ Coley* FEIN # 55-0594633 DATE 9/3/20

All offers subject to all terms and conditions contained in this solicitation

**Expression of Interest
(WV DEP Sardis (Saas) Landslide Project)**

In accordance with West Virginia Code: 5A-3 and WV Code 5G-1-3, The West Virginia Purchasing Division is soliciting Expression(s) of Interest for the Agency, The WV. Department of Environmental Protection (WVDEP) from qualified firms to provide architectural/engineering services; Aspects of the design are to include, but not be limited to; Civil, Geological and Hydrological.

Firm will be responsible for Design of the following:

- . Access or accesses as required.
- . Geotechnical analysis.
- . Stabilize landslide.
- . Hydrologic and hydraulic analyses.
- . Clear and grub affected areas.
- . Regrade as necessary.
- . Install drainage channels, underdrains, and/or other controls to safely convey water off-site.
- . Condition and revegetate all disturbed areas.
- . Obtain required permits as determined

and other related professional services to design and specify for construction as well as provide construction contract administration, in Harrison County, West Virginia. per the bid requirements, specifications and terms and conditions as attached hereto.

		SHIP TO	
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US		ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	

Line	Comm Ln Desc	Qty	Unit Issue
1	EOI Engineering Design Services		

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description :

*Dates of Service are estimated for bidding purposes only.

DEP210000001	Document Phase Final	Document Description EOI - Sardis (Saas) Landslide Project Harrison County, WV	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

ABANDONED MINE LANDS (AML) CONTRACTOR INFORMATION FORM

You must complete this form for your AML contracting officer to request an eligibility evaluation from the Office of Surface Mining Reclamation and Enforcement (OSMRE) to determine if you are eligible to receive an AML contract. This requirement applies to contractors and their sub-contractors and can be found under OSMRE's regulations at 30 CFR 874.16. **NOTE:** This form must be signed and **dated within 30 days** of submission to be considered for a current bid.

Part A: General Information

Business Name: E. L. ROBINSON ENGINEERING
Tax ID #: 550594633
Address: 5088 WASHINGTON ST. WEST
City, State, & Zip: CHARLESTON, WV 25313
Phone Number: 304 776-7473
Email Address: 304 776-6426

Part B: Obtain an Organizational Family Tree (OFT) from the Applicant Violator System (AVS)

If you plan to certify the existing AVS information or submit updates under Part C, you must include an OFT. To obtain an OFT, you may contact the AVS Office at 800-643-9748 or from the AVS website at: <https://avss.osmre.gov/>. Instructions for how to download an OFT from the AVS can be found at: <https://www.osmre.gov/programs/AVS/aml-instructions.pdf>.

Part C: Certifying and updating information in the AVS

Select only one of the following options, follow the instructions for that option, and sign and date below.

I, ERIC J. COBERLY, have express authority to certify that:
(Print Name)

- 1. Our business is in the AVS and is accurate, complete, and up-to-date. If you select this option, you must attach an Entity OFT from the AVS to this form. Do not complete Part D.
- 2. Our business is in the AVS but needs to be updated. If you select this option you must attach an Entity OFT from the AVS to this form. Use Part D to provide the missing or corrected information.
- 3. Our business is not in the AVS and needs to be added. Complete Part D.

8-14-20
Date


Signature

PROJECT MANAGER
Title

West Virginia Ethics Commission



Disclosure of Interested Parties to Contracts

Pursuant to *W. Va. Code* § 6D-1-2, a state agency may not enter into a contract, or a series of related contracts, that has/have an actual or estimated value of \$1 million or more until the business entity submits to the contracting state agency a Disclosure of Interested Parties to the applicable contract. In addition, the business entity awarded a contract is obligated to submit a supplemental Disclosure of Interested Parties reflecting any new or differing interested parties to the contract within 30 days following the completion or termination of the applicable contract.

For purposes of complying with these requirements, the following definitions apply:

"Business entity" means any entity recognized by law through which business is conducted, including a sole proprietorship, partnership or corporation, but does not include publicly traded companies listed on a national or international stock exchange.

"Interested party" or "Interested parties" means:

- (1) A business entity performing work or service pursuant to, or in furtherance of, the applicable contract, including specifically sub-contractors;
- (2) the person(s) who have an ownership interest equal to or greater than 25% in the business entity performing work or service pursuant to, or in furtherance of, the applicable contract. (This subdivision does not apply to a publicly traded company); and
- (3) the person or business entity, if any, that served as a compensated broker or intermediary to actively facilitate the applicable contract or negotiated the terms of the applicable contract with the state agency. (This subdivision does not apply to persons or business entities performing legal services related to the negotiation or drafting of the applicable contract.)

"State agency" means a board, commission, office, department or other agency in the executive, judicial or legislative branch of state government, including publicly funded institutions of higher education: Provided, that for purposes of *W. Va. Code* § 6D-1-2, the West Virginia Investment Management Board shall not be deemed a state agency nor subject to the requirements of that provision.

The contracting business entity must complete this form and submit it to the contracting state agency prior to contract award and to complete another form within 30 days of contract completion or termination.

This form was created by the State of West Virginia Ethics Commission, 210 Brooks Street, Suite 300, Charleston, WV 25301-1804. Telephone: (304)558-0664; fax: (304)558-2169; e-mail: ethics@wv.gov; website: www.ethics.wv.gov.

West Virginia Ethics Commission
Disclosure of Interested Parties to Contracts
(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: E.L. Robinson Engineering Address: 5088 Washington Street, West
Charleston, WV 25313

Name of Authorized Agent: Eric J. Coberly, P.E. Address: same

Contract Number: DEP2100000001 Contract Description: Sardis (Saas) Landslide Project

Governmental agency awarding contract: WVDEP

Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

1. Subcontractors or other entities performing work or service under the Contract

Check here if none, otherwise list entity/individual names below.

2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)

Check here if none, otherwise list entity/individual names below.

3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)

Check here if none, otherwise list entity/individual names below.

Signature: 

Date Signed: 9-3-20

Notary Verification

State of West Virginia, County of Kanawha:

I, ERIC COBERLY, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 3 day of September, 2020


Notary Public's Signature

To be completed by State Agency:

Date Received by State Agency: _____

Date submitted to Ethics Commission: _____

Governmental agency submitting Disclosure: _____

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(f), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire-service fees, or other fines or fees.

ALL CONTRACTS: 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: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, 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: E.L. Robinson Engineering

Authorized Signature: [Signature] Date: 9-3-20

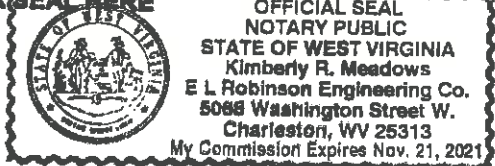
State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 3 day of September, 2020

My Commission expires 11-21, 2021.

AFFIX SEAL HERE



NOTARY PUBLIC [Signature]
Purchasing Affidavit (Revised 01/19/2018)



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

State of West Virginia
 Centralized Expression of Interest
 02 - Architect/Engr

Proc Folder: 755110

Doc Description: Addendum No.01 EOI - Sardis (Saas) Landslide Project

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2020-08-14	2020-09-03 13:30:00	CEOI 0313 DEP2100000001	2

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

Vendor Name, Address and Telephone Number:

FOR INFORMATION CONTACT THE BUYER

Guy Nisbet
 (304) 558-2598
 guy.l.nisbet@wv.gov

Signature X

FEIN # 55-0594633

DATE 9/3/20

All offers subject to all terms and conditions contained in this solicitation

Addendum

Addendum No.01 issued to publish and distribute the attached information to the vendor community.

**Expression of Interest
(WV DEP Sardis (Saas) Landslide Project)**

In accordance with West Virginia Code: 5A-3 and WV Code 5G-1-3, The West Virginia Purchasing Division is soliciting Expression(s) of Interest for the Agency, The WV. Department of Environmental Protection (WVDEP) from qualified firms to provide architectural/engineering services. Aspects of the design are to include, but not be limited to; Civil, Geological and Hydrological.

Firm will be responsible for Design of the following:

- . Access or accesses as required.
- . Geotechnical analysis.
- . Stabilize landslide.
- . Hydrologic and hydraulic analyses.
- . Clear and grub affected areas.
- . Regrade as necessary.
- . Install drainage channels, underdrains, and/or other controls to safely convey water off-site.
- . Condition and revegetate all disturbed areas.
- . Obtain required permits as determined

and other related professional services to design and specify for construction as well as provide construction contract administration, in Harrison County, West Virginia. per the bid requirements, specifications and terms and conditions as attached hereto.

		SHIP TO	
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US		ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	

Line	Comm Ln Desc	Qty	Unit Issue
1	EOI Engineering Design Services	0.00000	

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description :

*Dates of Service are estimated for bidding purposes only.

SOLICITATION NUMBER: CEOI 0313 DEP210000001

Addendum Number: No.01

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other

Description of Modification to Solicitation:

Addendum issued to publish and distribute the attached documentation to the vendor community.

1. Vendor question and agency response.

No other Changes.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

ATTACHMENT A

CEOI 0313 DEP210000001

**Sardis (Saas) Landslide Project
Vendor submitted Questions and Agency Responses
August 13th, 2020**

- 1) You referenced AMD mitigation design on page 3 of the EOI, do you know if the AMD is due to the impoundment or some other variable?
 - A. It is believed that impoundments are the primary issue at both sites. The statement for “Design to Mitigate AMD drainage, including possible horizontal borings”, was included as differentiating between the sites and for referring to the potential repair, retrofit and/or replacement of an existing AML mine seal and conveyance system, mitigate seeps, etc.

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: _____

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:

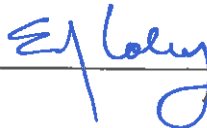
(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" 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.

E.L. Robinson Engineering

Company



Authorized Signature

9/3/20

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.
Revised 6/8/2012