

EXPRESSION OF
INTEREST /
STATEMENT OF
QUALIFICATIONS

Modifications/Repairs of Six (6) Dams Analysis and Design



STATE OF WEST VIRGINIA
DIVISION OF NATURAL RESOURCES
PROPERTY & PROCUREMENT OFFICE
324 4TH Avenue
South Charleston, WV 25303-1228



December 13, 2017



Land & Energy Development
Solutions from the ground up.

P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26031 • 304.482.5634

1412 Kanawha Blvd. E • Charleston, WV 25301

www.slsww.com

Modifications/Repairs of Six (6) Dams Analysis and Design

West Virginia Division of Natural Resources



STATEMENT OF QUALIFICATIONS

SLS LAND & ENERGY
DEVELOPMENT
12 VANHORN DRIVE
GLENNVILLE, WV 26351
P: 304.462.5634
www.slsww.com

Table of Contents

	PAGE
1.0 ABOUT SLS	3
2.0 CAPACITY	3
3.0 QUALITY ASSURANCE/SAFETY	4
4.0 SUB-CONSULTANTS	4
5.0 COST OF SERVICES	4
6.0 PROJECT APPROACH	5
6.1 Field Survey Services.....	6
6.1.1 Control Survey.....	6
6.1.2 Topographic Survey.....	6
6.2 Environmental Services.....	7
6.3 Geotechnical & Subsurface Investigation.....	7
6.4 Construction Plans and Specifications.....	7
6.5 Construction Contract Administration.....	8
7.0 PAST PROJECTS	8
8.0 ACKNOWLEDGEMENT OF ADDENDA	9

Appendices

- A Organizational Chart**
- B Key Personnel Resumes**
- C Certificates of Authorization**

December 13, 2017

State of West Virginia
Division of Natural Resources
Property and Procurement Office
Ms. Angela W. Negley
324 4th Avenue
South Charleston, West Virginia 26303-1228

Dear Ms. Negley:

Subject: Expression of Interest
Modifications/Repairs of Six (6) Dams
Analysis and Design

SLS Land & Energy Development (SLS) is pleased to submit this Expression of Interest (EOI) and Statement of Qualifications to the West Virginia Division of Natural Resources (WVDNR) for development of construction plans and specifications for modifications or repairs to six (6) dams located in Preston and Jackson Counties. The purpose of the project is to bring each of the specified dams into compliance with Dam Safety Regulations or to remove them from jurisdiction. The specified dams include Upper Decker's Creek Dams #3 and #7 and Fairfax Pond Dam, all in Preston County, and Rollins Lake Dams #1 and #2 and Turkey Run Dam, all in Jackson County. The dams are of earthen construction or, in the case of the Rollins Lake Dams, rock fill.

SLS is a multi-discipline professional consulting firm specializing in engineering, surveying, subsurface investigation and construction. Headquartered in Glenville, West Virginia, SLS was founded in 1978 by Gregory A. Smith with a single employee. Under Smith's leadership, SLS has adapted and grown to meet the needs of our clients. The core of professionals at SLS have over 250 years of combined experience and are supported by a highly qualified group of technical staff. Over three decades of success and steady growth demonstrates that SLS and its diverse service offering have become a trusted source in the industry.

SLS staffs two West Virginia offices with twenty-eight (28) full time professionals comprised of two (2) professional engineers, three (3) professional surveyors, five (5) survey party chiefs, four (4) designers, one (1) GIS specialist, five (5) survey technicians, three (3) CAD technicians, and six (6) construction inspectors. SLS further expanded our West Virginia business and client base with the opening of an office in Charleston, West Virginia. This investment demonstrates SLS's commitment to become a full-service consulting firm with a statewide presence. These core locations put our professionals within a short drive

of most of the major metropolitan areas within the state. SLS holds a valid Certificate of Authorization (COA) with the West Virginia Board of Professional Engineers (#C04162) and with the West Virginia Board of Professional Surveyors (#17-5405).

SLS is excited about the opportunity to work on this and future projects such that we may do our part in bringing the state's dams into compliance with regulatory agencies. Our quality of work, attention to detail, and experience allows SLS to be much more efficient and cost competitive than our larger competitors. SLS engineers have successfully and economically completed similar projects in the past. If chosen, SLS will be responsive to all your needs throughout the course of the project. Please feel free to contact me should any question arise or if you require additional information.

Respectfully Submitted,



Karen L. Krabill, P.E.
Senior Geotechnical Engineer
SLS Land & Energy Development

Attachment: Expression of Interest/
Statement of Qualifications

1.0 ABOUT SLS

SLS Land & Energy Development (SLS) was founded in Glenville, West Virginia by Gregory A. Smith, P.S. in 1978 with just a single employee. Incorporated on April 1, 1987, Smith has managed the firm out of Glenville for nearly four decades. Originally concentrated to central West Virginia, SLS now provides professional services to all of West Virginia and the surrounding states. Under Smith's leadership, the firm has experienced steady growth while diversifying the services provided by the firm. Since the firm's formation, Smith has been honored with two first place National Mapping Awards by the National Geodetic Survey; one third place National Mapping Award by the National Geodetic Survey, President's Award for Outstanding Performance to the Profession by the West Virginia Society of Professional Surveyors, and West Virginia Surveyor of the Year by the West Virginia Society of Professional Surveyors.

Smith's daughter, Sarah, joined the firm in 2015 to continue his legacy. With a law degree from West Virginia University and a Masters of Business Administration degree from the University of Charleston, she is working alongside her father learning the business while focusing on business development, communication, and human resource management. Sarah also manages the firm's newly opened office in Charleston, West Virginia.

2.0 CAPACITY

SLS has a full team of professional engineers, surveyors, and construction specialists ready to provide services for your project. Staffing two West Virginia offices with twenty-eight (28) full time professionals comprised of two (2) professional engineers, three (3) professional surveyors, five (5) survey party chiefs, four (4) designers, one (1) GIS specialist, five (5) survey technicians, three (3) CAD technicians, six (6) construction inspectors, and a highly qualified support staff, SLS is committed to delivering projects on time and within budget. SLS also employs in-house legal and accounting professionals to advise our technical staff on legal and accounting matters.

SLS is committed to staying abreast of technology and equipment advancements to ensure our clients receive the best product possible at the most economical price. Our highly skilled professional staff is complemented with a full regimen of state-of-the-art survey equipment, including four (4) Real Time Kinematic (RTK) Global Positioning Systems (GPS), two (2) Robotic Total Stations, four (4) Mapping Grade GPS Units, and six (6) Conventional Total Stations. Our full line of survey equipment coupled with a full fleet of 4x4 on- and off-road vehicles ensures that our field crews can access and complete the necessary field work for any project, no matter how remote.

SLS also has an in-house CME 45, track-mounted drill rig that can access most sites without dozer assistance. For those sites that are heavily wooded or on steeply sloping terrain, we have a dozer that can

provide assistance to the drill rig through tree removal and/or anchoring on steep slopes. We strive to limit site disturbance to the minimum required to access the test borings, reducing the cost of reclamation.

Our ever-expanding toolbox now features a fleet of Unmanned Aerial Vehicles (UAV) including two mapping drones and the state-of-the-art ICI Halo Thermal Imaging Infrared Aerial UAV System. With three-dimensional technology deeper than laser-scanned images, our mapping drones deliver accurate measurements and non-invasive data capture. The units are ideal for object surveying, industrial inspection, site monitoring, aerial photography, and videography; whereas, the sleek, lightweight Halo Drone offers some of the longest flight times in the industry. Halo's three axis gimbal allows for collection of spectral data and crisp, clean images from any angle. SLS is proud to be the first West Virginia based firm to offer this level of mapping and thermal imaging service to our clients.

We are committed to making each client feel as if they are our only client through excellent customer service and communication.

3.0 QUALITY ASSURANCE/SAFETY

In order to achieve the goal of providing high quality service, SLS maintains Quality Assurance and Safety Programs that address the various aspects of its professional, technical, and support activities. It is the objective of these programs to maintain the quality and safety of all company activities, particularly service to clients, at a consistently high level. The programs are subject to continuing review, and modifications will be made as required to reflect changes in company organization or operation, or to clarify or improve the programs. The firm has an impeccable safety record with over 700,000 hours logged without time lost due to injury.

4.0 SUB-CONSULTANTS

SLS is a full-service consulting firm with engineers, surveyors, subsurface investigation, and construction capabilities under one roof. With such a diverse service offering, SLS can usually handle most aspects of any project; however, if a specialty skill is required, SLS has an immense professional network from which specialized professionals can be secured to tackle any specialized skill which may be required. At this stage in the project, SLS anticipates utilizing the laboratory testing services of Stahl Sheaffer Engineering to complete the scope of services required for this project.

5.0 COST OF SERVICES

SLS is the economic choice over our much larger competitors while offering the same level of service. Each of our professionals is diversified and skilled in multiple facets of the required project services, which allows SLS to deliver the same level of service with a smaller staff, thereby keeping costs down for

our clients. Additionally, SLS is able to operate at a much lower overhead than that of our larger competitors, providing another cost saving benefit to our clients.

6.0 PROJECT APPROACH

SLS Land & Energy Development (SLS) staff has a long history in the successful completion of dam design and remediation projects. Our staff has built close working relationships with local, state and federal regulatory agencies, including West Virginia Department of Environmental Protection Dam Safety Division. With more than 250 years of combined experience among our core staff, SLS has a complete understanding of all facets of the proposed project.

Based on research of the six (6) dam sites included in the Request for Proposals, SLS believes that these older dams, which were constructed in the 1950s and 1960s, do not meet the hydraulic requirements of Dam Safety regulations. The inspection data provided in Addendum No. 1 indicates that none of the structures have a Certificate of Approval and only one (1) of the dams has an up to date Monitoring & Emergency Action Plan. Due to the ages of the structures, it is not likely that complete design and/or as-built plans are available.

Initially, SLS personnel plans to perform site reconnaissance at each of the sites to assess the condition of the structures. Our primary focus will be on visual assessment of slope stability, signs of seepage, water levels and other related site features. SLS believes that surveying will be required if as-built plans are not available. The Division of Natural Resources (DNR) will be apprised of the progress on the required services on a weekly basis, or as often as desired.

Once the surveying has been completed, subsurface exploration will be required to collect data necessary for slope stability analyses. Data will also be collected for hydrologic and hydraulic analyses. HEC-HMS and HEC-RAS programs will be utilized to model precipitation through the drainage areas, reservoirs and spillways to determine the magnitude of hydraulic deficiencies, if any. Potential remediation options will then be developed for consideration based on the findings of the slope stability, hydrologic and hydraulic analyses performed.

Following completion of the preliminary analyses, the results will be shared with Dam Safety and Division of Natural Resources (DNR) for consideration of recommended remediation options. Once it has been decided whether the structures should be remediated so they are in compliance with Dam Safety Regulation or if they should be removed from jurisdiction, design plans and specifications will be developed to reflect the decisions of the DNR.

The professional services to be offered by SLS include surveying, environmental services, subsurface exploration, engineering, and construction management. The following paragraphs outline in detail the

services SLS proposes for the completion of the design and preparation of construction specifications for the project.

6.1 Field Survey Services

Prior to commencing field survey activities, right-of-entry for surveying will be obtained from the landowner and any adjoining privately held parcels for which access may be required to complete the field survey services. The field survey services to be provided includes establishment of survey and construction control at the site, topographic survey and preparation of various electronic design files necessary to prepare construction plans and specifications for the project. Field survey activities, notes, and sketches will be recorded in a field survey book which will be scanned and kept in the file for the project.

6.1.1 Control Survey

A horizontal control network will be established at the sites to facilitate the field survey, development of construction contract plans and specifications, and construction of the improvements. The control network will be made up of various temporary survey monuments including, but not necessarily limited to, 5/8" rebar with cap, PK Nails, 60D mag nails, drill holes, or center punching as site conditions may dictate. Primary site control will be established using a CORS Station and post processed through an OPUS solution. Project control will be defined using the NAD83 (2007) adjustment and projected onto the WV State Plane Coordinate System, North Zone. Vertical control accuracy will meet the requirements set forth as a first order survey and will be referenced to NAVD88.

The primary control for the project will consist of two horizontal control monuments and two vertical control monuments (benchmarks). All primary control monuments will be established outside of the proposed construction limits in protected areas such that they can be utilized throughout the life of the project. Benchmark elevations will be established through differential leveling from an official monument established by a federal, state, or county agency if within reasonable proximity to the project site. If no official monument with a known elevation exists within reasonable proximity to the project, site elevations will be established through global positioning system (GPS) observation. Primary control monument locations, elevations, and descriptions will be provided in the electronic survey file deliverables.

6.1.2 Topographic Survey

Prior to commencing the topographic survey, a utility locate request will be placed with Miss Utility of West Virginia. The topographic survey will consist of field locating all existing topographic features within the project limits including existing above/below ground utilities, highway features, structures, dwellings, businesses, drainage facilities, waterways, and prominent vegetation. Naturally occurring breaks in the existing ground such as top of slope and bottom of slope will also be located. Additionally, random observations will be taken in areas of flat terrain

with no definable breaks in grade such that an accurate existing ground digital terrain model (DTM) can be prepared. Northing, easting, and elevation coordinates of all topographic features will be established through GPS observation and post processed through an OPUS solution.

6.2 Environmental Services

Environmental services necessary for the design and construction of the project include environmental permitting for the construction of the project. A National Pollutant Discharge Elimination System (NPDES) Permit for storm water discharges associated with the construction of the project must be obtained through the West Virginia Department of Environmental Protection.

SLS will assist in the preparation of necessary regulatory permit applications, exhibits, and calculations including the National Pollutant Discharge Elimination System (NPDES), as applicable. Projects with one (1) acre but less than three (3) acres of ground disturbing activities require completion and submission of a Notice of Intent (NOI) to the WV Department of Environmental Protection (WVDEP), whereas, projects with three (3) acres or greater of ground disturbing activities require completion and submission of a Site Registration Application to the WVDEP. Completion of the NPDES Notice of Intent or the Site Registration Permit Applications requires determination of the acreage disturbed by construction; latitude/longitude coordinates; determination of the receiving stream and drainage basin; calculation of earthwork quantities; hydrologic calculations; and development of a sediment and erosion control plan.

6.3 Geotechnical & Subsurface Investigation

SLS offers a wide range of geotechnical and subsurface investigative services including geotechnical engineering, soils analysis, and field testing. Our state of the art subsurface investigative equipment can perform split-spoon sampling, Shelby tube sampling and auger drilling. Our equipment maneuvers on rubber tracks, thereby minimizing ground disturbance and limiting clearing areas for sampling access. Drilling for the dam sites may include auger drilling, split-spoon sampling and Shelby tube sampling for laboratory testing.

Laboratory testing may include, but will not necessarily be limited to, classification testing, shear strength testing and moisture content determination. If seepage appears to be problematic, laboratory analysis may also include permeability testing.

6.4 Construction Plans and Specifications

SLS consists not only of surveyors and engineers, the firm is also a fully licensed, bonded and insured construction contractor. With a full construction division, SLS has ready access to highly skilled construction specialists who play an active role in our designs, advising our designers on constructability and construction costs. SLS will prepare concise and comprehensive construction plans and specifications,

thoroughly and clearly detailing all aspects of the project designs. Accurate and detailed construction plans and specifications remove the guess work from the contractors bidding the project, thereby limiting costly change orders during construction.

6.5 Construction Contract Administration

SLS has a complete team of construction specialists who will handle all aspects of the construction contract administration from preparation of construction specifications and bid documents to overseeing the actual construction of the project. This turnkey approach ensures that the design objectives are carried through the construction phase of the project and that the project is constructed in accordance with the plans and specifications.

7.0 PAST PROJECTS

SLS personnel have completed various projects involving dam analysis and/or design. Following is a brief listing of the projects previously completed by our staff.

- **Terra Alta Dam Modifications**
Work on this project involved evaluation of an area of the dam that failed during a large storm. Drilling was conducted, and repairs were designed for the structure. Construction of the project was completed in the early 1990s under the supervision of Karen Krabill, who was the project engineer. Work was completed for the city of Terra Alta, in Preston County.
- **St. Leo Fresh Water Impoundment**
The St. Leo Fresh Water Impoundment project was a complete evaluation and design project for Consol. Services included surveying, subsurface exploration, development of design plans and specifications, and permitting. This work was conducted in the early 2000s, with Karen Krabill as the project manager. Consol elected not to construct this dam.
- **Hackers Creek Dam Expansion**
Expansion of the Hackers Creek Dam, designed for Consol, included a two-phase expansion. Karen Krabill was the design engineer, conducting the hydrologic and hydraulic analyses required for spillway design, as well as the slope stability evaluations. Design work was completed in 2004, with the expansions constructed in subsequent years.
- **Alpine Lake Dam Remediation**
Karen Krabill served as the design engineer for this dam remediation. Analyses included a hazard evaluation to determine the hazard classification of the existing structure. Remediation consisted of an underwater survey of the principal spillway riser and outlet, which were subsequently repaired to seal the significant leakage. Work on this project took place in 2005, working for the Alpine Lake Homeowners Association.

➤ **Markwood Cedar Lake Dam**

Complete design of the Markwood Cedar Lake Dam was completed during the mid-2000s. The work included expansion of a small farm pond to a lake to be used as a focal point for a housing development. Karen Krabill was the design engineer for this project, which was never constructed.

➤ **Cobun Creek Dam**

Work on the Cobun Creek Dam included a downstream hazard evaluation and design of remediation to correct an eroded area of the dam. The dam, owned by the Morgantown Utility Board, was also inspected numerous times between 1995 and 2009. Work on the dam evaluations and design was conducted by Karen Krabill with the remedial design completed in 2009.

➤ **Numerous Dam Safety Inspections**

Karen Krabill was also tasked with conducting numerous dam safety inspections between 1995 and 2011. These inspections were conducted for multiple dams for Consol, as well as many privately-owned dams such as Big Bear Lake Dam and Bruceton Dam.

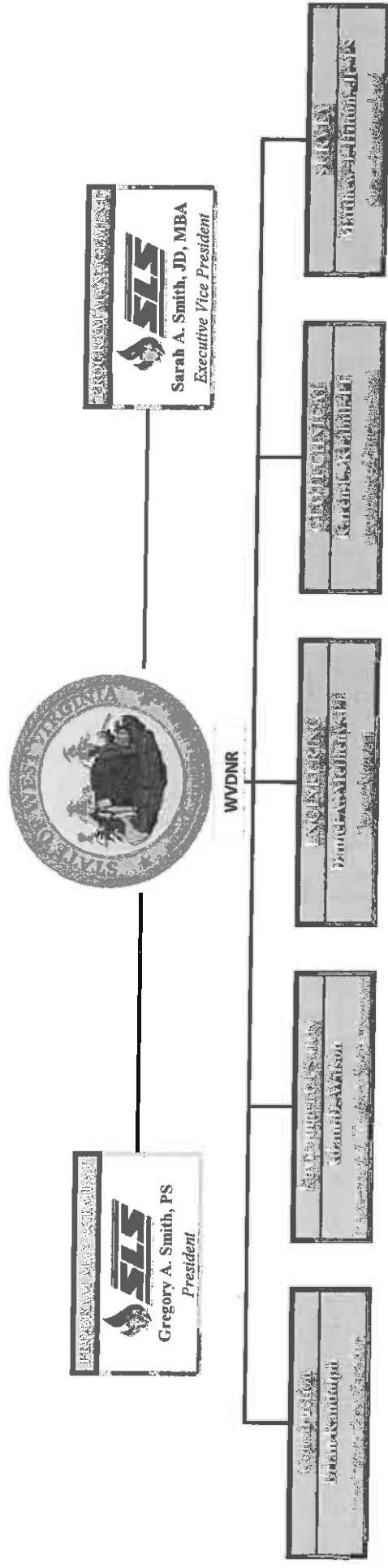
8.0 ACKNOWLEDGEMENT OF ADDENDA

SLS hereby acknowledges receipt and understanding of the following Addendum issued as part of the request for proposals:

- Addendum #1 – Dated the 10th day of November, 2017

Appendix A
Organizational Chart

PROJECT ORGANIZATIONAL CHART



Appendix B
Key Personnel Resumes



Gregory A. Smith, P.S.
President

**Education/
Special Training**

Glennville State College
A.S. Land Surveying – 1976

American Congress on Surveying & Mapping,
Association of Photogrammetry & Photo Interpretation (1.3 units)
US Geological Survey National Mapping Center Resources & Information
Land Sat Image Interpretation at Purdue University
Bluefield State College Land Surveying Seminar (1.6 units)
Pennsylvania State University Computer & Business Courses (2.1 units 1986),
Photogrammetry & Business (2.1 units 1985)
Soil Erosion & Sediment Control Plans (1986)
Spill Prevention Control & Countermeasure Plans
Computer Training at CLM Systems, Tampa, FL.
Auto Cad Training at Putnam County Training Center
Surface Mine Permitting & Regulations (1990) - WV Dept. of Energy
Geographic Information System (1990) - RDA Associates, Maryland
Design & Permitting for Water & Sewer Systems (1991) - WV Dept. of Health
Erosion & Sediment Control (1991) - WV Dept. of Natural Resources
Global Position System - Technical & Use (1991)
Wetlands Evaluation (1991) - EPA, US Army Corps, Fish & Wildlife, & WV DNR
Law Enforcement Program – National Standards Committee - NCEES (1997)
IRS Tax & Revenue Program for Employee Classification and Audit (1998)
National Geodetic System – Use and Standards (1998)
Geodetic Control with GPS – NSG Program (1998)
GPS Advancements/ Applications for Mountainous Terrain (1999)
Knud Hermanson – Boundary Litigation, the Surveyor & Court (2000)
Professionalism & Ethics for the Professional Surveyor (2000)
NGS – HARN Statewide Monument Densification Project (2000)
Flood Plane Management/National Flood Insurance Program (2002)
Influencing Public Policy to Meet the Needs of the Surveying Profession (2002)
Boundary Law and Legal Aspects of Surveying (2002)
Risk of Doing Business Liability & Regulatory Compliance (2003)
Knud Hermanson – Minimum Standards for Boundary Surveys (2003)
Charm School for Surveyors – Public & Client Relations (2004)
WVSPS Floodplain Management (2006)
Knud Hermanson – Minimum Standards & Ethics (2007)
Surveyor's Use of Historical Maps (2007)
NCEES Meeting – Expanding the Scope of Surveying Practice (2007)



**Licensing/
Certificates**

Professional Surveyor
West Virginia – 677

Experience

President
SLS Land and Energy Development (1978 – Present)

Smith Land Surveying, Inc. (SLS) was founded in Glenville, West Virginia by Gregory A. Smith, P.S. in 1978 with just a single employee. Incorporated on April 1, 1987, Smith has managed the firm out of Glenville for nearly four decades. Originally concentrated to central West Virginia, SLS now provides professional services to all of West Virginia and the surrounding states. Under Smith's leadership, the firm has experienced steady growth while diversifying the services provided by the firm. Since the firm's formation, Smith has been honored with two first place National Mapping Awards by the National Geodetic Survey; one third place National Mapping Award by the National Geodetic Survey; President's Award for Outstanding Performance to the Profession by the West Society of Professional Surveyors; and West Virginia Surveyor of the Year by the West Virginia Society of Professional Surveyors.

**Professional
Organizations**

Director for WVALS (1984-1989)
Legislative Chairman for State Surveyors Association (1987-present)
Exam Evaluation Committee for NCEE (1988-1989)
President Elect WVALS (1989 – President 1990 – 1991)
Glenville State College Advisory Board – Land Surveying
Glenville State College Advisory Board – Environmental Technology
Glenville State College Advisory Board – Natural Resources Management
Glenville State College Advisory Board – Landman Program (2002 & 2006)
Calhoun-Gilmer Career Center Advisory Board – CAD and Drafting Program
West Virginia Association of Land Surveyors
American Congress on Surveying & Mapping
Pennsylvania Society of Land Surveyors
WV Independent Oil and Gas Association (IOGA)
National Society of Professional Surveyors
Gilmer County Industrial Development Association
WV Society of Architects – Affiliate Member
National Society of Wetland Scientists
WV Oil & Gas Association
Little Kanawha Parkway Authority
American Association of Petroleum Landmen
Presenter for the WV Auditor's Office – Seminar on Recordation Laws (2006)
Member – Gilmer County Utility Board
Member, IOGA Board of Governors
Chairman, Glenville State College Board of Governors



Karen L. Krabill, P.E.
Geotechnical Engineer

**Education/
Special Training**

West Virginia University
B.S. Civil Engineering – 1984

West Virginia University
M.S. Geotechnical Engineering – 1986

**Licensing/
Certificates**

Professional Engineer
West Virginia – 12353
Pennsylvania – 75489
Maryland – 34785
Ohio – 79916

Experience

Geotechnical Engineer

SLS Land and Energy Development (2016 to Present)

- Develop proposals, plan subsurface explorations, prepare test boring logs, perform engineering analyses and provide written reports. Perform hydrologic and hydraulic analyses. Review geotechnical-related recommendations. Provide expert testimony for court cases.
- Specialties included landslide analysis and control, slope stability evaluation, design of reinforced soil slopes, well pad investigations and segmental retaining wall design.

Geotechnical Group Lead

Larson Design Group (2014 to 2015)

- Responsible for all aspects of geotechnical engineering for the company. Developed proposals, planned subsurface explorations, prepared test boring logs, performed engineering analyses and provided written reports. Oversaw personnel activities, including supervision of field technicians and review of field reports. Reviewed all geotechnical-related correspondence issued by firm.
- Specialties included landslide analysis and control, slope stability evaluation, design of reinforced soil slopes, well pad investigations and segmental retaining wall design

Geotechnical Practice Leader

Triad Engineering, Inc. (2006 to 2013)

- Responsible for all aspects of geotechnical engineering for the Morgantown, West Virginia office. Planned and conducted subsurface explorations, developed detailed geotechnical reports and performed various engineering analyses. Provided expert testimony for court cases. Supervised and directed staff and reviewed all correspondence relating to geotechnical engineering.
- Specialties included earth dam design, slope stability analyses and control, segmental retaining wall design and forensic engineering.



Civil Engineer

Triad Engineering, Inc. (1990 to 2006)

- Conducted subsurface explorations, developed detailed geotechnical reports and performed engineering analyses. Conducted drainage analysis and design including stream flow analysis, dam break evaluations, ditch design and stormwater management system design. Performed field logging activities and site reconnaissance.
- Specialties included drainage design, slope stability evaluations, earth dam design, hydrology and hydraulics.



Daniel A. Metheny, P.E.
Project Manager

**Education/
Special Training**

West Virginia Institute of Technology
B.S. Civil Engineering – 1997

National Highway Institute Course 130055A
Safety Inspection of In-Service Bridges
National Highway Institute Course 130053
Bridge Inspection Refresher Training
National Highway Institute Course 130087
Inspection & Maintenance of Ancillary Highway Structures
WV Division of Homeland Security & Emergency Management
Floodplain Management 101

**Licensing/
Certificates**

Professional Engineer
West Virginia - 16389

Experience

Engineering Project Manager
SLS Land & Energy Development (2017 to Present)
Project Engineer providing design oversight for development of oil and gas and commercial sites and preparing design plans and permitting for WV DOH road improvements and bridge replacements.

Survey Project Manager
Encompass Services, LLC (2015 to 2017)
Direct and manage up to five field crews conducting control, topographic and cadastral surveys for seventy-one (71) PennDOT bridge replacement projects under subcontract for PennDOT Rapid Bridge Replacement Public Private Partnership Project. Direct and oversee the development of electronic survey deliverables consisting of Quality Control/Quality Assurance reviews of electronic survey deliverables including Bentley MicroStation, Bentley InRoads and Microsoft files including raw survey, control network, plainmetrics, existing ground contours, highway right-of-way, property boundary mosaics, digital terrain models and highway alignments.



Experience Cont.

Engineering Division Manager

FOX Engineering, PLLC (2004 to 2014)

Direct and manage the day-to-day operations of the Engineering Division including direct supervision of staff, conduct staff performance evaluations, staff hiring and disciplinary actions, review staff hours and review/approve personal expense reimbursements; monitor project budgets and schedules, direct and manage work by sub-consultants and sub-contractors, conduct structural and condition inspections of residential and commercial structures and prepare detailed inspection reports documenting existing conditions and deficiencies identified through condition inspection and evaluation and conduct Quality Control/Quality Assurance reviews of work products.



**Matthew J. Hilton, Jr, P.S.
Surveyor Project Manager**

**Education/
Special Training** **Glennville State College**
A.S. Land Surveying – 2001

**Licensing/
Certificates** **Professional Surveyor**
West Virginia – 2294

OSHA 10 Hour Certification

Experience

Surveyor Project Manager
SLS Land and Energy Development (2011 to Present)

Monitor the progress of projects under my supervision, check well plats and rec plans, perform boundary surveys and compute corners, prepare for drafting, perform level loops and compute elevations for elevation certificates and Loma surveys.

Senior Party Chief
Allegheny Surveys (2009 to 2011)

Staked gas wells and prepared plats and rec plans for drafting, topo'd coal mine stock piles using conventional and survey grade GPS, set control points using survey grade GPS, set control points using survey grade GPS, ran field crews on boundary surveys.

Survey Technician
Pocahontas Coal Company (2009)

Assist in setting spads in high wall for lining up high wall mining equipment; assist in running traverse and set bore hole stake; assist in as-built for access roads and high wall reclamation.

Senior Party Chief
Allegheny Surveys, Inc. (2006 to 2009)

Staked gas wells and prepared plats and rec plans for drafting; topo coal mine stock piles using conventional and survey grade GPS; set control points using survey grade GPS; and directed field crews on boundary surveys.



Experience Cont.

**Survey Technician/Party Chief
Smith Land Surveying, Inc. (1999 to 2006)**

Assist in staking gas wells and access roads, assist with performing boundary surveys, assist with construction surveys, became party chief and began staking gas wells, laying out access roads and preparing well plats for drafting, ran boundary survey crews and helped with the computation of boundary corners and preparing plats and description for drafting, ran level loops and computed elevations for elevation certificates.



Adam D. Wilson
Environmental, Health & Safety Manager

**Education/
Special Training** **Glennville State College**
B.S. Natural Resource Management / Environmental Science Concentration

**Licensing/
Certificates** OSHA 10 Hour Certification
Steel Tank Institute SP001 Inspector Certification
WV Licensed Asbestos Building Inspector
Heartsaver First Aid, CPR Certification
Micro Certified Health and Safety Technician
Micro Certified Mold Inspector
Micro Certified Mold Remediator
38 Hour USACE Wetland Delineation Course
US EPA Consent Decree Training Course
US EPA Watershed Management Certification
SPCC & FRP: Compliance, Inspections, and Response (ELI Research, LLC)

Experience **Environmental, Health, and Safety Manager / Sr. Environmental Scientist**
SLS Land & Energy Development (2014 to Present)
Prepare all permitting as related to environmental services including USACE, WV DEP H6A and NPDES, US Fish and Wildlife, WV DNR, SHPO as well as implementing all permit conditions for a variety of clients. Conduct wetland delineations and Environmental Site Assessments and the associated reports for use by regulatory agencies. Perform all aspects of Aboveground Storage Tank compliance including registrations, spill prevention response plans, and inspection/certification as a Steel Tank Institute SP001 Licensed Inspector. CADD mapping for permit exhibits. WV Asbestos Building Inspector conducting inspections regarding NESHAP and AHERA laws. Tier II filings for various clients. Generate and maintain compliance with online safety plans specific to client needs as well as internal needs through sites such as ISNetWorld and Avetta. Initiate and manage company drug and alcohol policy for compliance with company and client requirements.

**Professional
Organizations** Chi Beta Phi National Science Honorary
Society of Wetland Scientists Member



Brian Randolph
Vice President, Construction

**Education/
Special Training** **West Virginia Institute of Technology**
B.S. Civil Engineering

**Licensing/
Certificates** OSHA 30 Hour Certification
MSHA Safety Sensitive
RTC Marathon
HCSS Heavy Bid
Primavera P6
Viewpoint Vista

Experience **Vice President, Construction**
SLS Land & Energy Development (2017 to Present)
Oversee all aspects of multimillion-dollar construction projects. Estimate projects and create budgets. Develop purchase orders and subcontracts. Schedule and coordinate project resources including equipment, construction materials, permanent materials, subcontractors and project personnel. Assist in the development and review of cost proposals, quality control plans, sediment and erosion control plans, sediment and erosion control plans, demolition and erection plans and value engineering proposals.

Operations / Division Manager
Kanawha Stone Company (2010 to 2017)
Oversee all aspects of multimillion-dollar construction projects. Estimate projects and create budgets. Develop purchase orders and subcontracts. Schedule and coordinate project resources including equipment, construction materials, permanent materials, subcontractors and project personnel. Assist in the development and review of cost proposals, quality control plans, sediment and erosion control plans, sediment and erosion control plans, demolition and erection plans and value engineering proposals. Prepare monthly job cost projection reports and division resource schedules.

Area Manager
Kokosing Construction Company (2010)
Oversee all aspects of multimillion-dollar construction projects. Develop purchase orders and subcontracts. Negotiate and prepare change orders and pay estimates. Develop and update project schedules. Schedule and coordinate project resources including equipment, construction materials, permanent materials, subcontractors and project personnel. Assist in the development and review of cost proposals, quality control plans, sediment and erosion control plans, sediment and erosion control plans, demolition and erection plans and value engineering proposals. Prepare quarterly job cost analysis reports.





Operations Manager

Ahern & Associates (2005-2010)

Oversee all aspects of multimillion-dollar construction projects. Develop purchase orders and subcontracts. Negotiate and prepare change orders and pay estimates. Develop and update project schedules. Schedule and coordinate project resources including equipment, construction materials, permanent materials, subcontractors and project personnel. Assist in the development and review of cost proposals, quality control plans, sediment and erosion control plans, sediment and erosion control plans, demolition and erection plans and value engineering proposals.

Superintendent

Ahern & Associates (1998-2005)

Oversee daily construction operations, project safety, scheduling of subcontractors and material deliveries, tracking project quantities and develop weekly work plans.

Project Engineer

Ahern & Associates (1998-2005)

Track project quantities and labor hours, update project schedules, assist with construction layout and schedule material deliveries and subcontractors.

Appendix C
Certificates of Authorization

CERTIFICATE OF *Authorization*

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

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

**SMITH LAND SURVEYING, INC., DBA SLS LAND & ENERGY
DEVELOPMENT
C04162-00**

Engineer in Responsible Charge: KAREN KRABILL - WV PE 012353

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

February 16, 2017 - December 31, 2017

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

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



IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF
REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA
UNDER ITS SEAL, AND SIGNED BY THE PRESIDENT OF SAID BOARD.

BOARD PRESIDENT

WEST VIRGINIA BOARD OF PROFESSIONAL SURVEYORS



Certificate of Authorization

ISSUED TO:

Smith Land Surveying, Inc.
dba SLS Land & Energy Development
Glennville, West Virginia

Certificate of Authorization # 17-5405

This certificate is issued by the West Virginia Board of Professional Surveyors in accordance with West Virginia Code § 30-13A-20. The person or organization identified on this certificate is licensed to conduct professional surveying and mapping services in the State of West Virginia for the period

January 1, 2017 through December 31, 2017

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

In witness whereof I have put my hand, this 1st day of December, 2016

R. MICHAEL SHEPP, P.S. Chairman
JAMES T. RAYBURN, P.S., Member



NELSON B. DOUGLASS, P.E., P.S., Secretary
SEFTON R. STEWART, P.S., Member

PAUL W. HILL, Public Member