



# THRASHER

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WV PURCHASING  
DIVISION

## CAMDEN (WILSON) LANDSLIDE - EPAM19051

CEOI 0313 DEP2000000002

Submitted by:  
The Thrasher Group, Inc.  
November 26, 2019

November 26, 2019

Attn: Brittany Ingraham, Senior Buyer  
2019 Washington Street East  
Charleston, WV 25305



COMPLEX PROJECTS  
REQUIRE RESOLVE  
**THRASHER'S GOT IT**

*RE: EOI - Camden (Wilson) Landslide - EPAM19051*

Dear Ms. Ingraham and selection committee members:

The Thrasher Group, Inc. is pleased to present our qualifications to the West Virginia Department of Environmental Protection (DEP) for the Camden (Wilson) Landslide project. As a West Virginia-based company that has been serving the state for 36 years, we take pride in projects that so clearly improve the landscape and restore the beauty of the Mountain State.

We have a longstanding history with this region of West Virginia, having worked on projects in this general area ranging from waterline extensions to EDA projects and every type in between. We consider ourselves a partner with Lewis County – our support spans beyond general infrastructure to include true community projects. Our cumulative knowledge and experience with AML projects will enable us to work with you to efficiently identify project goals, establish accurate budgets, and develop successful projects.

Additionally, our proximity to Lewis County allows us to perform consistent monitoring of the projects going on in the area. The Thrasher team is always available and easily accessible when the need arises to be on-site in an instant.

We recognize the importance of and appreciate the opportunity to restore this area of Lewis County and look forward to further speaking with you about the needs of this project.

Sincerely,  
THE THRASHER GROUP, INC.

A handwritten signature in blue ink, appearing to read "RJ Hovatter".

RJ Hovatter, PE  
Project Manager

# THE THRASHER GROUP



- > Utility Engineering
- > Architecture
- > Site Engineering
- > Environmental
- > Survey
- > Transportation
- > Construction Services
- > Geospatial

## Main Point of Contact:

RJ Hovatter, PE  
Project Manager  
rhovatter@thethrashergroup.com  
Cell: 304-669-6848  
Office: 304-205-8809



**9**

**OFFICES**  
in six states:

West Virginia  
Virginia  
Pennsylvania  
Ohio  
Maryland  
Kentucky



**600**

**EMPLOYEES**

**46** Licensed  
Professional Engineers

**20** Licensed  
Professional Surveyors

**6** Licensed  
Professional Architects

**3** Licensed  
Professional  
Landscape Architects



**36**

**YEARS**  
of delivering  
successful  
projects

Diverse services that grow communities.

**THRASHER'S GOT IT.**

# THE THRASHER GROUP

## Office Locations

- > Bridgeport, WV
- > Charleston, WV
- > Beckley, WV
- > Burton, WV
- > Fredericksburg, VA
- > Canonsburg, PA
- > Canton, OH
- > Oakland, MD
- > Lexington, KY



*The Thrasher Group provides architecture, engineering, and field services such as environmental, survey, materials testing, and construction management. For 35 years, Thrasher has earned a reputation for delivering successful projects for private and public clientele. Thrasher is one of the fastest-growing A/E firms in the Mid-Atlantic region.*



## CIVIL ENGINEERING

### Water Treatment & Distribution

Thrasher brings experience, practical knowledge and advanced technology to clients ranging from regional to small communities' water systems. Our engineers have designed and managed the construction of hundreds of miles of water distribution lines, millions of gallons of storage, and numerous system rehabilitations that successfully reduced water loss and increased reliability.

### Wastewater Collection & Treatment

Wastewater collection and treatment is vital to the health of rural communities and municipalities. Cost-versus-benefit Environmental and technological issues are all involved.

### Stormwater Systems

Thrasher is prepared to take on challenges to make your stormwater management project a success. In the not so distant past, stormwater management was not a significant issue.

It was "out of sight, out of mind." That is no longer the case. Ever-increasing regulations, the creation of public stormwater utilities, and the focus on downstream effects of development are pushing stormwater management issues to the forefront.

### Site Development

Engineering for site development is far from a "one size fits all" approach. Every project is unique. It requires a blend of technical expertise combined with quality planning principles, efficient design, market realities, and flexibility to seize opportunities. With our diverse staff, Thrasher has the right blend of talent to make your project a success.

### Roadways & Bridges

From industries to local families, the nation depends on the strength of highways, bridges, and even pedestrian walkways. No matter what the mode of land transportation, Thrasher gets our clients where they want to be.



## SITE DEVELOPMENT

Engineering for site development is far from a “one size fits all” approach. Every project is unique and requires a blend of technical expertise, planning principals, efficient design, market realities, and the flexibility to seize opportunities. With our diverse staff, Thrasher has a winning combination of talent to take projects from design to reality.

At Thrasher, we understand that the design of a successful site development project must factor in economic landscape, political implications, and strategic planning that takes projects beyond engineering. The Thrasher team possesses expertise in every facet of development, including site selection and planning, grading, storm water management, erosion and sediment control, permitting, and infrastructure design.

We pride ourselves on being a partner in projects that improve the quality of life for residents and provide economic sustainability to communities.

### Site Development Expertise:

- > Industrial and Business Parks
- > Mixed-Use Developments
- > Athletic Facilities
- > Federal Correctional Facilities
- > Streetscapes and Sidewalk Planning
- > Commercial Developments
- > Single and Multi-Family Residential Development
- > Primary, Secondary, and Higher Education Facilities
- > Recreational Resorts and Guest Lodging
- > Shopping Plazas



## ENVIRONMENTAL SERVICES

In today's ever-changing regulatory landscape, compliance with federal and state environmental laws is critical to the success of projects. Compliance can often seem at odds with the project vision and financial constraints. The Thrasher team partners as a technical and regulatory advocate to overcome obstacles and guide our clients through complicated policies to achieve their goals. From initial investigations to final design, our environmental experts are there to assist in all facets of our clients' projects. Our team has developed relationships with academic consultants from multiple universities that are here to aid in specialized assessments.

### Environmental Services:

- > All Appropriate Inquiry (AAI)
- > Environmental Site Assessments
- > NEPA Compliance for Publicly Funded Projects (CATEX, EA, EIS)
- > Ecological Studies
- > Brownfield Redevelopment and Voluntary Remediation Program
- > Industrial Hygiene and Demolition Planning
- > Underground Storage Tank (UST) Consulting Services
- > Wetland Delineation, Design, and Mitigation
- > Remediation Investigation and Feasibility Studies, Alternatives, and Design
- > Rare, Threatened, Endangered Plants Surveying (PA)
- > Hydrogeologic and Geologic Investigations
- > Groundwater Monitoring
- > Sampling and Laboratory Analysis
- > Solid and Hazardous Waste Management
- > SPCC, GPP, SWPPP, GWPP, SWPPP Environmental Compliance Plans
- > Stream Assessments, Design, and Mitigation
- > Erosion and Sediment Control Plans
- > Uniform Environmental
- > CERCLA Preliminary Assessments and Investigations
- > Rare, Threatened, Endangered Bat Surveys (WV)



## STORMWATER SYSTEMS

Ever-increasing regulations and a renewed focus on downstream effects are pushing stormwater management issues to the forefront. Working with an experienced stormwater consultant like Thrasher gives municipalities and private clients innovative and cost-effective solutions to stormwater management issues.

Our complete system approach means that we gain a full understanding of our clients' needs and can incorporate specialized project management expertise to achieve a smooth, seamless design. Thrasher has a long and successful history of working with public utility clients and private developers to find sustainable and innovative solutions to stormwater management issues.

One of the prime objectives of soil stabilization is to improve on-site materials to create a solid and strong sub-base and base courses. Stabilized subgrades are more resistant to environmental stressors and require less maintenance over the life cycle of your construction project.

### Stormwater Management Skills:

- > Municipal Separate Storm Sewer Systems (MS4) Consulting and Compliance
- > Design of Pipelines, Channels, and Culverts
- > Detention Pond Design
- > Erosion and Sediment Control Plans
- > Underground Storage/Injection Wells
- > NPDES Permitting and Compliance
- > Watershed and Flood Studies
- > HEC-RAS Stream Modeling
- > Best Management Practices (BMP) Evaluation and Design
- > Geographic Information Systems (GIS)
- > Bio-Retention Systems





## SURVEY AND MAPPING SERVICES

Thrasher employs one of the largest survey departments in the Mid-Atlantic region and offers a wide range of land surveying and related services for federal, state, and private clients. We are committed to evolving our techniques and equipment to best serve our clients and their growing needs.

At Thrasher, we are able to provide both surveying and engineering services which provide a distinct advantage over survey-only companies. The combination of these two services provide our surveyors with a better understanding of what engineers and architects require to develop an appropriate design for different types of projects. Our field and survey personnel offer extensive experience, certified training, and flexibility to meet our clients' unique project schedules.

### Route Location Surveys:

- > Transmission Lines
- > Natural Gas Pipelines
- > Wind Turbine
- > Roadway, Railway, and Rec Trails

### General Survey Services:

- > Large-Scale Boundary Work
- > Topographic Survey and Mapping
- > ALTA/ACSM Survey and Mapping
- > Lake and River Soundings
- > Accident Reconstruction Survey & Mapping
- > Expert Witness Testimony
- > Construction Layout
- > Permanent Project GPS Base Stations
- > Building Control and Layout
- > Road/Bridge Alignment and Staking
- > Sewer/Water/Pipeline
- > Site Layout
- > Quality Assurance Surveying
- > Volume/Quantity Surveys
- > As-Built Surveys

### GPS Surveys:

- > Geodetic Control Networks
- > Ground Control for Aerial Mapping
- > Telecommunications
- > FAA 1A and 2C Letters

### Coal and Energy Surveys:

- > Pre and Post Mining Blast Surveys
- > Water Quality Monitoring Plan
- > Construction Layout
- > Emergency Control Survey/ Plans

## PROJECT MANAGEMENT PLAN

Thrasher is a statewide, full-service group with the experience and ability to work on complex-natured projects and the necessary environmental capabilities to handle the Camden (Wilson) landslide. To make sure your project is completed successfully, Thrasher follows the approach outlined below:

**Project Inception:** Thrasher not only takes the time to understand the scope of work, but takes the time to understand other issues that may arise while executing your project. We attend various meetings to provide progress updates, listen to the constituents and their concerns, and focus on ways to address them to ensure everyone is working together.

**Availability:** Thrasher has a unique advantage because of our strategically placed office locations throughout the state of West Virginia. Our team has the capability to respond quickly and effectively to meet client needs as they arise, including emergency situations that allow very little notice.

**Addressing Each Project:** Every project has unique issues and needs. We take an individualized approach to ensure those needs are being met to the fullest of our capability. As each project arises, it will be assessed and broken down into manageable phases laid out as a roadmap to success.

**Coordination/Communication:** Your project manager, RJ Hovatter, will serve as your main point of contact for this project. Initial support will begin with consistent communications and internal Thrasher Quality Control processes (site surveys, stakeholder reviews, comment resolution, etc.). RJ will also be in constant contact with members of the WVDEP in order to maintain transparency during the process.

**Landslide Repair:** Three different AML landslide repair projects have been completed by Thrasher. Each repair required extensive geotechnical design for soldier pile and concrete lagging and concrete segmental gravity block walls, as well as slip material removal for slope stabilization. These projects were in close proximity to residential areas that required special care during construction. We would use the same approach for the Wilson Landslide.

**Drainage Design:** All of the AML projects completed by Thrasher have required design of drainage structures, like the Wilson Landslide. In the past, these have included vegetated, grouted, rip-rap channels, as well as culverts and storm sewers. Drainage calculations were completed to properly size all conveyances.

**Permitting:** The permitting process can delay projects if they are not submitted correctly or in a timely manner. Thrasher takes pride in on our ability to quickly obtain permits for our clients. We are able to utilize our excellent relationship with the WVDEP for NPDES permits as well as our relationship with the West Virginia Division of Highways for entrance and drainage permits. We are also experienced in obtaining Army Corps of Engineers permits from both the Pittsburgh and Huntington District Offices for stream bank restoration, wetland mitigation and construction, linear transportation and utility line projects, and temporary construction access and dewatering. You can be confident in knowing that any permitting necessary for your project will be handled swiftly by the Thrasher team.

*Thrasher utilizes a Project Manager-driven methodology to ensure clear, open lines of communication between our Project Managers and clientele.*

## QUALITY CONTROL



Thrasher has an internal Quality Control Policy to ensure our projects move forward efficiently and effectively. The objectives of this manual are to continually improve the quality of the design and technical deliverables Thrasher provides to its internal and external clients.

This manual illustrates the basic requirements for quality control in our projects. It describes the methods for checking and reviewing product elements and client deliverables, and includes rigorous comprehensive written check-lists for each stage of the design process, document production, and construction activities.

The purpose of these QC methodologies is to reduce or eliminate the potential for errors, omissions, ambiguities, and inconsistencies.

The policy outlines three main areas:

- > **General** - Defines the purpose, intent and limitations, definitions, and implementation
- > **Project Management Procedures** - Presents required procedures specific to this practice that allow for the efficient and accurate management of projects
- > **Check and Final Review Procedures** - Presents required procedures specific to this practice that are used to insure technical accuracy of the work product

## COST CONTROL



Cost is a concern in every project and one that we take seriously – it is important to us that we provide a transparent, thorough look at what it will take to get your project completed. To make sure that happens, we follow four important principles:

- > **Thorough construction documents** - Starting off with detailed construction documents helps the entire project run more smoothly. By laying an accurate, realistic picture at the beginning of the process, we are able to complete your project more efficiently and with fewer change orders.
- > **In-depth review process** - The Thrasher team participates in an in-depth review process to ensure there is a thorough understanding of your project. Our construction administration team visits your site in person so we know exactly what is needed for the space.
- > **Understanding of what things cost** - Thrasher has a knowledgeable construction administration team that understands what it truly costs to make things happen. Rather than relying on general industry standards, our Construction Estimator, Jim Decker, can tell you what something will cost in actuality. Jim, who has a contracting license, knows how to navigate both sides of a bid process and can deliver an accurate look at your project costs up front.
- > **Respect for your wallet** - We respect your business needs and work to ensure the lowest-cost options we can find. We also keep you updated of budget throughout the process: An initial construction cost will be calculated to reflect your budget, and construction cost estimates will be delivered with the drawings at the end of Schematic Design, Design Development, and Construction Documentation. Adjustments to size and/or quality will be made, as necessary, during each design phase to maintain your budget.

## SCHEDULING AND BUDGETING



### **Scheduling:**

Thrasher realizes the importance of establishing and maintaining project schedules. Time means money and making sure we help you spend your money wisely is our number one goal. Because of this, our team puts an emphasis on ensuring project timetables are met and communication is upheld throughout the process.

To accomplish these goals, Thrasher utilizes scheduling to track every stage of a project - from design and bidding through construction completion. We also require contractors working on our projects to regularly update their project schedules and give a detailed progress report at each job meeting, again focusing on the communication component of scheduling. This helps to ensure all parties are informed and aware of potential delays. Keeping our owners up to speed with progress is always our priority and ensures occupancy and owner supplied equipment are scheduled accordingly.

### **Budgeting:**

Construction estimating and budgeting is the most important part of what Thrasher can provide you. Without accurate budgets, there is no tool to guide the design process and issues will be inevitable. By including cost estimating as a part of the project scope from day one, we are able to avoid issues before they arise and keep your project within a reasonable cost.

And our estimates go beyond the typical system - rather than simply providing cost per foot or lump sum price, Thrasher will provide contractor-grade estimates that look at every part of the project. We do detailed take-offs of materials and look at every man hour needed to complete a project and factor this in accordingly. Then , we use our thorough understanding of the local market and material costs to accurately design within your budget.

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
**AML CONSULTANT QUALIFICATION QUESTIONNAIRE** Attachment "A"

PROJECT NAME <b>CAMDEN (WILSON) LANDSLIDE AML</b>		DATE (DAY, MONTH, YEAR) <b>NOVEMBER 26, 2019</b>	FEIN <b>55-0633596-6</b>
1. FIRM NAME <b>THE THRASHER GROUP, INC.</b>		2. HOME OFFICE BUSINESS ADDRESS <b>600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330</b>	3. FORMER FIRM NAME <b>THE THRASHER GROUP, INC.</b>
4. HOME OFFICE TELEPHONE <b>304-624-4108</b>	5. ESTABLISHED (YEAR) <b>1983</b>	6. TYPE OWNERSHIP Individual Corporation <b>X</b> Partnership Joint-Venture	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES NO <b>X</b>
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE <b>600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330 / 304-624-4108 / KENNETH MORAN / 6</b>			

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM <b>KENNETH MORAN, PE, PS – PRESIDENT / COO</b> <b>CHAD RILEY, PE – VICE PRESIDENT / CEO</b> <b>RONALD STANLEY, CPA – SECRETARY TREASURER / CFO</b>	8a. NAME, TITLE, & TELEPHONE NUMBER – OTHER PRINCIPALS <b>WM. RANDY WATSON - PARTNER (304) 624-4108</b> <b>CHAD M. RILEY, P.E.– PARTNER (304) 624-4108</b> <b>CHADWICK BILLER, P.E.– PARTNER (304) 624-4108</b> <b>CLAY P. RILEY, P.E. – PARTNER (304) 624-4108</b> <b>DAN FERRELL, P.E.- PARTNER (304) 624-4108</b> <b>CRAIG BAKER, CEFP – PARTNER (304) 624-4108</b> <b>ROBERT MILNE, P.E. – PARTNER (304) 624-4108</b> <b>JONATHAN CARPENTER, P.E.-PARTNER (304) 343-7501</b> <b>JENELLE ARMSTRONG, P.E., PMP – PARTNER (304)326-7601</b> <b>ROBERT RUFFNER, PS – PARTNER (304-624-4108)</b> <b>CLAYTON WHITE, EI, PMP – PARTNER (304-624-4108)</b>
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9. PERSONNEL BY DISCIPLINE

<b>44 ADMINISTRATIVE</b>	— ECOLOGISTS	<b>2 LANDSCAPE ARCHITECTS</b>	— STRUCTURAL ENGINEERS
<b>6 ARCHITECTS</b>	— ECONOMISTS	— MECHANICAL ENGINEERS	<b>293 SURVEYORS</b>
— BIOLOGIST	— ELECTRICAL ENGINEERS	— MINING ENGINEERS	— TRAFFIC ENGINEERS
<b>33 CADD OPERATORS</b>	<b>29 ENVIRONMENTALISTS</b>	<b>4 PHOTOGRAMMETRISTS</b>	<b>5 GIS SPECIALIST</b>
— CHEMICAL ENGINEERS	— ESTIMATORS	— PLANNERS: URBAN/REGIONAL	— PIPELINE INSPECTOR
<b>46 CIVIL ENGINEERS</b>	— GEOLOGISTS	— SANITARY ENGINEERS	<b>33 MATERIALS TESTING TECH.</b>
<b>80 CONSTRUCTION INSPECTORS</b>	— HISTORIANS	— SOILS ENGINEERS	
DESIGNERS	— HYDROLOGISTS	SPECIFICATION WRITERS	<b>584 TOTAL PERSONNEL</b>
— DRAFTSMEN			

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 46

\*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 NOT APPLICABLE

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

<b>NAME AND ADDRESS:</b> <b>NOVEL GEO-ENVIRONMENTAL</b> <b>650 MACCORKLE AVENUE WEST</b> <b>ST. ALBANS, WV 25177</b>	<b>SPECIALTY:</b> <b>GEO-TECHNICAL SERVICES</b>	<b>WORKED WITH BEFORE</b>  <input checked="" type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>
<b>NAME AND ADDRESS:</b>	<b>SPECIALTY:</b>	<b>WORKED WITH BEFORE</b>  <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>
<b>NAME AND ADDRESS:</b>	<b>SPECIALTY:</b>	<b>WORKED WITH BEFORE</b>  <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>
<b>NAME AND ADDRESS:</b>	<b>SPECIALTY:</b>	<b>WORKED WITH BEFORE</b>  <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>
<b>NAME AND ADDRESS:</b>	<b>SPECIALTY:</b>	<b>WORKED WITH BEFORE</b>  <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>
<b>NAME AND ADDRESS:</b>	<b>SPECIALTY:</b>	<b>WORKED WITH BEFORE</b>  <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>
<b>NAME AND ADDRESS:</b>	<b>SPECIALTY:</b>	<b>WORKED WITH BEFORE</b>  <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>
<b>NAME AND ADDRESS:</b>	<b>SPECIALTY:</b>	<b>WORKED WITH BEFORE</b>  <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>
<b>NAME AND ADDRESS:</b>	<b>SPECIALTY:</b>	<b>WORKED WITH BEFORE</b>  <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>

12. A. Is your firm experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?  
**X YES** Description and Number of Project: THRASHER PERFORMS ENGINEERING DESIGN SERVICES TO THE WV DEP FOR DRAINAGE, PORTAL SEALS, HIGHWALL AND OTHER REMEDIATION PROJECTS, AS WELL AS FOR WATER LINE AND WATER TREATMENT PLANT PROJECTS RELATED TO AML. NUMEROUS PROJECTS INVOLVING LAND REMEDIATION, STORM WATER DRAINAGE, SLIP REPAIR, MASS GRADING IN RELATION TO SITE DEVELOPMENT AND HIGHWAY PROJECTS ARE ENGINEERED BY THE FIRM ON A REGULAR BASIS.

B. Is your firm experienced in Soil Analysis?  
**X YES** Description and Number of Projects: THRASHER MAINTAINS AN AASHTO CERTIFIED MATERIALS TESTING AND ANALYSIS LAB AT BOTH THE BRIDGEPORT AND BECKLEY OFFICES. SOIL ANALYSIS EXPERIENCE IS SPECIFICALLY IN GRADATIONS AND CLASSIFICATION.

C. Is your firm experienced in hydrology and hydraulics?  
**X YES** Description and Number of Projects: THROUGHOUT THE STATE THRASHER HAS DONE PLANNING AND DESIGN OF BRIDGES FOR THE WEST VIRGINIA DEPARTMENT OF HIGHWAYS AND THE DESIGN OF MULTIPLE PRIVATE AND MUNICIPAL DEVELOPMENT PROJECTS LOCATED WITHIN FLOODPLAINS. THUS THRASHER HAS EXTENSIVE EXPERIENCE IN HYDROLOGY. WE ALSO HAVE A VAST AMOUNT OF EXPERIENCE IN HYDRAULIC MODELING FOR WATER AND WASTEWATER PROJECTS THROUGHOUT WEST VIRGINIA.

D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?  
**YES** Description and Number of Projects: THRASHER ACQUIRES AERIAL IMAGERY USING IN HOUSE RESOURCES ON SMALLER AREA PROJECTS. WE OWN AND OPERATE THREE UAS (UNMANNED AERIAL SYSTEMS) FOR A VARIETY OF IMAGERY MISSIONS FOR PROJECTS UP TO APPROXIMATELY 500 ACRES. FOR LARGE MAPPING PROJECTS, WE USE A COMMERCIAL FLYING SERVICE. THRASHER HAS THREE FAA CERTIFIED PILOTS.  
THRASHER HAS EXPERTISE AND SOFTWARE IN HOUSE AND ROUTINELY PERFORMS AERO TRIANGULATION, PLANIMETRIC COMPILATION, SURFACE MODELING, CONTOUR MAPPING AND DIGITALLY RECTIFIED IMAGERY.  
THRASHER HAS MAPPED AND FLOWN HUNDREDS OF PROJECTS DURING THE LAST YEAR.

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: THRASHER HAS DESIGNED MORE WATER LINE SYSTEMS THAN ANY OTHER WEST VIRGINIA FIRM. PROJECTS INCLUDE NEW SYSTEMS, EXTENSIONS AND REPLACEMENTS OF WATER LINE DISTRIBUTION SYSTEMS, MANY OF WHICH HAVE BEEN AFFECTED BY ABANDONED MINE LANDS. DESIGN OF THE PROJECTS INCLUDES LINES, BOOSTER STATIONS, WATER TREATMENT PLANTS, AND STORAGE FACILITIES. THRASHER'S ANALYSIS AND DESIGN ALSO INCLUDES IMPROVEMENTS AND ALTERNATIVES FOR WATER SOURCES DEEMED GROUND WATER UNDER THE DIRECT EFFECT OF SURFACE WATER.

F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?  
**YES** Description and Number of Projects THRASHER HAS BEEN AWARDED AND HAS SUCCESSFULLY COMPLETED NUMEROUS RECLAMATION PROJECTS FOR WVDEP RELATED SPECIFICALLY TO ACID MINE DRAINAGE AND ABATEMENT, AS WELL AS, MULTIPLE PASSIVE TREATMENT SYSTEMS DESIGNED FOR WATERSHED PROTECTION GROUPS. THE CHARLESTON WV BRANCH OF OUR COMPANY DESIGNED AN AWARD-WINNING WATER TREATMENT PLANT FOR MARTINKA MINES IN MARION COUNTY, WEST VIRGINIA TO TREAT MINE DRAINAGE.



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:
<b>BILLER, CHADWICK D. – PRINCIPAL-IN-CHARGE</b>	<b>15</b>	<b>20</b>	<b>20</b>

Brief Explanation of Responsibilities:

**Chadwick Biller has experience in all aspects of engineering with specific emphasis on site development, highways, roads, bridges, and airports. Chad joined The Thrasher Group, Inc. in 1999 and is a partner of The Thrasher Group. For The Thrasher Group, Chad is responsible for WV DEP AML project and public and private site development projects, specializing in airports, highways, roads and bridges. As Project Manager for all of the firm's WVDOT/DOH projects, he has extensive knowledge of state and federal building standards.**

EDUCATION (Degree, Year, Specialization):  
**Bachelor of Science, Civil Engineering, 1992 – West Virginia University**

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS  
**American Society of Civil Engineers  
 Society of American Military Engineers  
 National Society of Professional Engineers**

REGISTRATION (Type, Year, State)  
**Registered Professional Engineer (PE), State of West Virginia  
 Registered Professional Engineer (PE), State of Pennsylvania  
 Registered Professional Engineer (PE), State of Ohio**

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:
<b>HOVATTER, RICHARD (RJ) – PROJECT MANAGER</b>	<b>12</b>	<b>12</b>	<b>12</b>

Brief Explanation of Responsibilities

**As Project Manager, RJ has completed the site design, grading, storm water and erosion and sediment control plans for over twenty private and commercial development. He has also managed over 35 Abandoned Mine Land Emergency and Abandoned Mine Land projects in West Virginia, Maryland and Ohio. RJ has also been the lead on numerous slip remediation projects.**

EDUCATION (Degree, Year, Specialization)  
**Bachelor of Science, 2002, Civil Engineering Technology – Fairmont State University**

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)  
**Professional Engineer (P.E.), 2009, State of West Virginia  
 Professional Engineer (P.E.), 2010, State of Pennsylvania**

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:
<b>MORRIS, REBECCA, Y. – QA/QC</b>			

Brief Explanation of Responsibilities

**Rebecca Morris, PE is a Senior Project Manager in Thrasher's Site Division. A native of Phillipi, Rebecca has spent her career in the Mountain State, previously working for Morgantown firms Dieffenbach and Hritz and Alpha Associates.**

**Rebecca has a focus on oil and gas and will primarily be leading work on well pads, M&R pads, and compressor stations. She started with oil and gas as the Marcellus and Utica shale boom came to the region and has stayed in the field because of her passion for the industry – Rebecca thrives on the high-energy, high-intensity atmosphere that comes with oil and gas sites.**

EDUCATION (Degree, Year, Specialization) **B.S. Civil Engineering – West Virginia University, Civil Engineering**

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)  
**Professional Engineer (PE) State of West Virginia**

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:
<b>HEGEDIS, STEVE – PROJECT ENGINEER</b>	<b>19</b>	<b>19</b>	<b>19</b>

Brief Explanation of Responsibilities

**Steve Hegedis is an experienced civil site design engineer with an education in environmental resource management. He has a strong background in site design, stormwater design, and engineered natural systems (ENS) design. Prior to joining Thrasher, he worked on a host of energy projects, as well as commercial and residential site developments, and water and stormwater design.**

**Steve has a thorough knowledge of NPDES permitting, bringing a deep respect for the environmental impact of his work and an important expertise to his clients. Additionally, Steve is a licensed general contractor in West Virginia, giving him a unique dual perspective as he approaches design projects.**

EDUCATION (Degree, Year, Specialization) **B.S. – Penn State University, Environmental Resource Management**

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

**THE THRASHER GROUP, INC. WILL DESIGN WORK FOR AML UTILIZING ONE OF THE LARGEST NETWORKS OF COMPUTER AIDED DESIGN (CAD) EQUIPMENT, SOFTWARE AND TRAINED PERSONNEL IN THE STATE OF WEST VIRGINIA.**

**CONNECTED THROUGH A VIRTUAL PRIVATE NETWORK, OUR CAD STAFF HAS THE ABILITY TO SHARE NECESSARY PLANS AMONG OUR LOCATIONS. THIS WILL ALLOW WORK DESIGNED FOR AML TO BE PREPARED AND UPDATED AT THE OFFICE LOCATION THAT BEST MEETS THE NEEDS OF THE SCOPE OF SERVICES. CIVIL 3D, CARLSON AND MICROSTATION V8 SOFTWARE IS UTILIZED AT 70 CAD STATIONS THROUGHOUT OUR LOCATIONS. ADDITIONALLY, EQUIPMENT INCLUDES 10 LARGE FORMAT (SIZE E) PLOTTERS AND 5 LARGE FORMAT PLOTTER / SCANNERS. CAD PLANS ARE PREPARED BY BOTH DEDICATED CAD EMPLOYEES AND BY STAFF ENGINEERS AND ENGINEERING TECHNICIANS IN EACH OF THE FIRM'S OFFICES.**

**THE THRASHER GROUP, INC. ALSO UTILIZES TOP-OF-THE LINE SURVEY EQUIPMENT. OUR SURVEY WORK IS ACCOMPLISHED WITH GLOBAL POSITIONING SYSTEMS (GPS) AND ELECTRONIC DISTANCE MEASURING (EDM) SURVEY STATIONS WITH DATA GATHERING CAPABILITIES. THE SURVEY CREWS AND OFFICE SUPPORT STAFF GENERATE MAPPING DELIVERABLES IN VIRTUALLY ANY DIGITAL FORMAT REFERENCED TO SPECIFIED PROJECTION SYSTEMS.**

**ADDITIONAL SURVEY SERVICES INCLUDE: HIGH ACCURACY MONUMENTATION, ASTRONOMIC OBSERVATIONS / ORIENTATION, NGS BLUE BOOKING, HYDROGRAPHIC, TERRESTRIAL SCANNING, 3D AS-BUILTS, 3D MONITORING, SUB-SURFACE UTILITY LOCATION / DESIGNATION. THE FIELD CREWS ARE ALL EQUIPPED WITH LATE MODEL FOUR WHEEL DRIVE VEHICLES STOCKED WITH THE MOST MODERN EQUIPMENT AVAILABLE TO PERFORM PROFESSIONAL LAND SURVEYING SERVICES.**

111 TRIMBLE GNSS UNITS  
68 TRIMBLE ROBOTS  
2 PRECISE DIGITAL FIRST ORDER LEVELS WITH INVAR RODS  
39 LEICA, NIKON OR TOPCON TOTAL STATIONS ALL MANAGED BY TRIMBLE TSC3 FIELD COMPUTERS  
2 REMOTE CONTROLLED/UNMANNED MAPPING AERIAL PLATFORM  
HYDROGRAPHIC SURVEY VESSEL  
7 3D SUB-SURFACE UTILITY LOCATORS

CIVIL 3D  
CARLSON AND MICROSTATION V8 SOFTWARE  
70 CAD STATIONS  
10 LARGE FORMAT (SIZE E) PLOTTERS AND  
5 LARGE FORMAT PLOTTER / SCANNERS.

**15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD**  
**THE THRASHER GROUP IS CURRENTLY THE DESIGNATED "ENGINEER OF RECORD" ON MORE THAN 200 ON-GOING PROJECTS. THESE PROJECTS RANGE FROM SIMPLE BOUNDARY SURVEYS WHICH ARE COMPLETED WITHIN A FEW DAYS' TIME TO COMPLETE MUNICIPAL PROJECTS WHICH ARE COMPLETED OVER AN EXTENDED AMOUNT OF TIME. A PARTIAL LISTING OF CURRENT PROJECTS FOLLOWS WHICH DEMONSTRATES THE RANGE OF SERVICES PROVIDED BY THE THRASHER GROUP.**

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
MALDEN PUBLIC SERVICE DISTRICT WASTEWATER TREATMENT PLANT KANAWHA COUNTY, WV	MALDEN PUBLIC SERVICE DISTRICT P.O. BOX 350 TAD, WV 25201-0350	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$13,600,000.00	90%
CITY OF RIPLEY, WV WASTEWATER TREATMENT PLANT & SYSTEM IMPROVEMENTS JACKSON COUNTY, WV	CITY OF RIPLEY, WV 203 SOUTH CHURCH STREET RIPLEY, WV 25271	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$13,000,000.00	80%
FOUNTAIN PUBLIC SERVICE DISTRICT WATER SYSTEM PROJECT MINERAL COUNTY, WV	FOUNTAIN PUBLIC SERVICE DISTRICT PO BOX 146 / ROUTE 46 EAST KEYSER, WV 26726	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$10,500,000.00	60%
PEA RIDGE WASTEWATER TREATMENT PLANT CABELL COUNTY, WV	PEA RIDGE PSD 500 NOVA STREET HUNINGTON, WV 25705	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$23,000,000.00	40%
PRESTON COUNTY SEWER PUBLIC SERVICE DISTRICT WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM	PRESTON COUNTY SEWER PUBLIC SERVICE DISTRICT PO BOX 89 BRUCETON MILLS, WV 25525	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION.	\$1,150,000.00	60%
OAK HILL SANITARY BOARD TWO WASTEWATER TREATMENT PLANT UPGRADES	OAK HILL SANITARY BOARD 100 KELLY AVENUE OAK HILL, WV 25901	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$20,000,000.00	50%
BERKELEY COUNTY PUBLIC SERVICE SEWER DISTRICT RIVERSIDE PUMP STATION INSTALLATION BERKELEY COUNTY, WV	BERKELEY COUNTY PSSD PO BOX 944 MARTINSBURG, WV 25402	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$7,000,000.00	25%

TOTAL NUMBER OF PROJECTS: 7 SHOWN

TOTAL ESTIMATED CONSTRUCTION COSTS: \$88,250,000

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
ACP PIPELINE – NC TO WV	SURVEY	GAI 300 SUMMERS STREET, SUITE 100 CHARLESTON, WV 25301	SUMMER, 2021	N/A	N/A
TRANSOURCE 45 MILE T-LINE	SURVEY	BURNS AND MCDONELL ENGINEERING COMPANY 119 NORFOLK AVE SW #100 ROANOKE, VA 24011	DECEMBER, 2019	N/A	N/A
PROCTOR AND GAMBLE – BERKELEY COUNTY, WV	QUALITY CONTROL SURVEY, UTILITY, E&S INSPECTION	FLUOR ENTERPRISES 100 FLUOR DANIEL DRIVE GREENVILLE, SC 29607	FALL 2019	\$500,000,000	\$1,020,000
BLUE HORIZON DRIVE – MONONGALIA COUNTY, WV	DESIGN, INSPECTION, SURVEY, TESTING	BEAR CONTRACTING PO BOX 1196 BRIDGEPORT, WV 26330	FALL 2018	\$17,000,000	\$250,000
CORRIDOR H SECTION 2 – RANDOLPH COUNTY, WV	ROADWAY DESIGN, SURVEY, TESTING	MEAD AND HUNT 400 TRACY WAY #200 CHARLESTON, WV 25311	FALL 2021	\$100,000,000	N/A

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOU WERE THE DESIGNATED ENGINEER OF RECORD:  
**AML RELATED PROJECTS FOR THE WVDEP AND WATERSHED PROTECTION GROUPS**

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
PLEASANT VALLEY AML RECLAMATION MARION COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 <sup>TH</sup> STREET, SE CHARLESTON, WV 25304	\$764,000.00	2013	YES
ROGER CAMP HILL AML RECLAMATION TUCKER COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 <sup>TH</sup> STREET, SE CHARLESTON, WV 25304	\$210,000.00	2013	YES
OWL CREEK HIGHWALL #2 AML RECLAMATION MONONGALIA COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 <sup>TH</sup> STREET, SE CHARLESTON, WV 25304	\$1,590,000.00	2014	NO
LANDGRAFF REFUSE PILE AML RECLAMATION MCDOWELL COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 <sup>TH</sup> STREET, SE CHARLESTON, WV 25304	\$324,000.00	2014	NO
CANYON REFUSE AND DUMP AML RECLAMATION MONONGALIA COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 <sup>TH</sup> STREET, SE CHARLESTON, WV 25304	\$1,004,000.00	2014	NO
STOWE (PRINCE) LANDSLIDE EMERGENCY AML LOGAN COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 <sup>TH</sup> STREET, SE CHARLESTON, WV 25304	\$220,000.00	2015	YES
LAMBERTON RUN SITE 7 PASSIVE AMD TREATMENT SYSTEM HARRISON COUNTY, WV	GUARDIANS OF THE WEST FORK 830 BENONI AVE. FAIRMONT, WV 2554	\$340,000.00	2015	YES
SWAMP RUN #1 PASSIVE AMD TREATMENT SYSTEM UPSHUR COUNTY, WV	BUCKHANNON RIVER WATERSHED ASSOCIATION 112 FAYETTE STREET, BUCKHANNON, WV 26201	\$440,000.00	2015	NO

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOU WERE ASSOCIATED WITH OTHER FIRMS  
(INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
BOONE COUNTY MINE ACCESS	WVDOH 1900 KANAWHA BLVD E CHARLESTON, WV 25311	\$1,207,900	2018	NO	BIZZACK CONSTRUCTION
OAK MOUND WALDO RUN ELECTRIC TRANSMISSION LINE	FIRST ENERGY 76 SOUTH MAIN STREET AKRON, OH 44308	\$1,294,493	2016	YES	BURNS AND MCDONNELL
SOUTHEAST RELIANCE PIPELINE	DOMINION ENERGY 900 WHITE OAKS BOULEVARD BRIDGEPORT WV 26330	\$3,800,000	2014	NO	GAI
DOMINION ENERGY WV HEADQUARTERS	DOMINION ENERGY 900 WHITE OAKS BOULEVARD BRIDGEPORT WV 26330	\$860,000	2015	YES	MARCH WESTIN COMPANY
CITY OF BECKLEY INTERMODAL GATEWAY	CITY OF BECKLEY 409 S. KANAWHA STREET BECKLEY, WV 25801	\$250,000.00	2012	YES	PARSONS BRINCKERHOFF

19. USE THIS SPACE TO PROVIDE ANY ADDITIONAL INFORMATION OR DESCRIPTION OF RESOURCES SUPPORTING YOUR FIRM'S QUALIFICATIONS TO PERFORM WORK FOR THE WV ABANDONED MINE LANDS PROGRAM

SEE ATTACHMENT – STATEMENT OF QUALIFICATIONS

20. THE FOREGOING IS A STATEMENT OF FACTS.

SIGNATURE:  TITLE: PROJECT MANAGER

DATE: NOVEMBER 26, 2019

PRINTED NAME: RICHARD HOVATTER

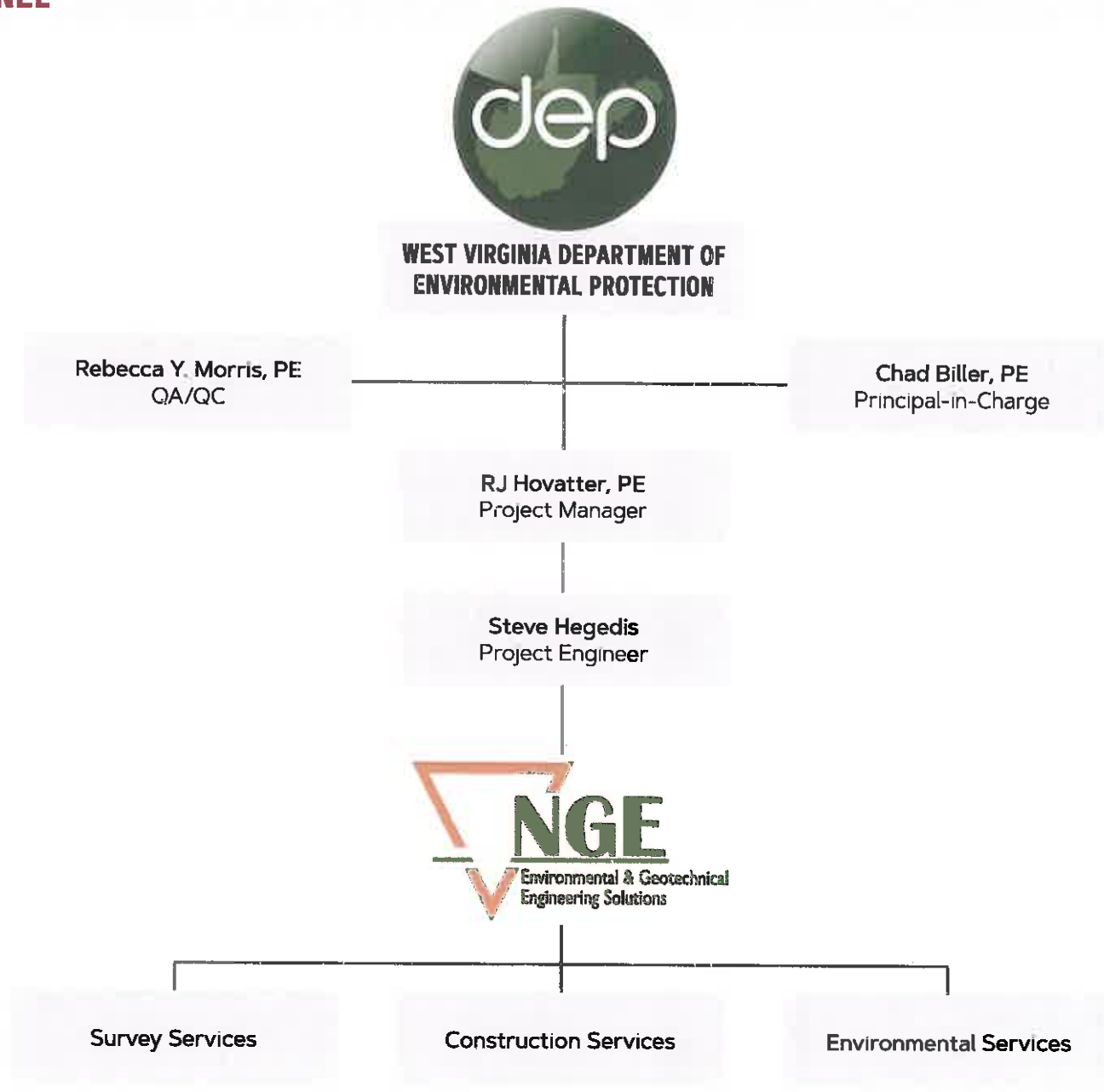
# BOND FORFEITURE AND RELATED PROJECT EXPERIENCE MATRIX - "ATTACHMENT B"

PROJECT	Exp. Basis C-Corp P-Personal *	Additional info provided in Section (s) **	PROJECT EXPERIENCE REQUIREMENTS														Primary staff participation/capacity *** M-Management P-Professional			
			Forfeited Surface Mine Reclamation	Forfeited Deep Mine Reclamation	Portal/shaft closure	Hydrologic/Hydraulic design/ Eval.	Remining Evaluation	Mine / refuse fire abatement	Subsidence investigation/ mitigation	Hazardous waste disposal	Project specifications	Water quality evaluation /mitigation replacement	Construction inspection / management	Water treatment	Equipment /structure removal	Stream restoration	Geotechnical/stability	Chadwick D. Biller	Rebecca Y. Morris	R.J. Hovatter
Anglins Run Portals	C	Project Experience			x	x				x							M			
Roaring Creek	C		x	x		x				x							M			
Shinns Run Portals	P			x		x				x									MP	
Squire's Creek Portals	C		x		x	x				x				x			M			
Overfield (Laferty) CS&P	C		x		x	x				x						x	M			
Laurel Run	C		x		x	x				x							M		P	
Clarksburg Lyons Landslide	C		x			x				x						x	M			
Pleasant Valley	C		x		x	x				x							M		P	
Roger Camp Hill	C		x			x				x							M		P	
Owl Creek Highwall	C		x		x	x				x					x		M		P	
Landgraaf Refuse	C		x			x				x							M		P	
Canyon Refuse & Dump	C		x		x	x				x			x				M		P	
Stowe (Prince) Landslide	C					x				x						x	M		P	
Lamberts Run Site 7	C	Project Experience	x			x				x	x	x	x		x		M		P	
Swamp Run #1	C	Project Experience	x			x				x	x	x	x		x		M		P	
Dans Branch	C					x				x						x	M		P	
Ed Gower Highwall #2	C		x		x	x				x							M		P	P
Martinka Mine	C	Project Experience	x			x				x	x	x	x				M		P	

\*List whether project experience is corporate or personnel based or both  
 \*\* Use this area to provide specific sections or pages if needed for reference  
 \*\*\* List primary design personnel and their functional capacity for the projects listed.



## KEY PERSONNEL



## CHAD BILLER, PE

Principal-in-Charge



### Education

Bachelor of Science,  
Civil Engineering  
West Virginia University

### Registrations

Professional Engineer  
> West Virginia  
> Ohio

### Affiliations

- > American Society of Highway Engineers
- > American Society of Civil Engineers
- > National Society of Professional Engineers

Chad Biller, PE has extensive experience in all aspects of civil engineering, but his primary emphasis lies in site development, transportation, and airport projects. Chad's expertise has made him a go-to source for the design and site layout of numerous residential and commercial sites all throughout the Mid-Atlantic region. His knowledge of site design in the mountainous terrain of West Virginia and the surrounding Appalachian basin is second to none.

As part of his role as in the Site Division, Chad is responsible for the development of project design, production of project specifications and plans, bidding, quality assurance/quality control, and project monitoring. He brings a deep breadth of knowledge to the table, including creative problem solving skills, and decades of hands-on experience implementing unique project delivery methods individually tailored for his clients.

### Experience

#### **WVDEP AML Stowe Landslide**

Role: Principal-in-Charge  
Logan County, WV

#### **WVDEP AML Anglins Run Project**

Role: Principal-in-Charge  
> Nicholas County, WV

#### **WVDEP AML Squires Creek Project**

Role: Principal-in-Charge  
> Preston County, WV

#### **WVDEP AML Landgraph Refuse Pile**

Role: Principal-in-Charge  
> McDowell County, WV

#### **WVDEP AML Owl Creek Highwall #2**

Role: Principal-in-Charge  
> Monongalia County, WV

#### **City of Salem Slip Repairs**

Role: Project Manager  
> Harrison County, WV

#### **Fairmont State University Storm Water Management Plan**

Role: Principal-in-Charge  
> Marion County, WV

#### **Old Bridgeport Hill Storm Drainage**

Role: Principal-in-Charge  
> Harrison County, WV

# CHAD BILLER, PE

Principal-in-Charge

**Name:** CHADWICK D. BILLER

**WV Professional Engineer:** PE License Number: [REDACTED]

**PE License Status:** Active

**PE Issue Date:** 02/23/1998

**PE Expiration Date:** 12/31/2020

**Continuing Education Claim:** Qualifying Hours from Last Renewal or Reinstatement: 86.00

**Carryover Hours for Next Renewal:** 15.00

**Last Renewal or Reinstatement Date\*:** 12/5/2018

**WV Engineer Intern:** EI Certification Number:

**EI Issue Date:**

**Primary Address of Record:** [REDACTED]

**Primary Employer of Record:** THE THRASHER GROUP, INC.  
600 WHITE OAKS BOULEVARD  
PO BOX 940  
BRIDGEPORT, WV 26330



\* This date reflects the most recent license renewal (or reinstatement) date for this licensee. Continuing education hours earned prior to this date may not be used for future renewals.

## REBECCA Y. MORRIS, PE

QA/QC



### Education

Bachelor of Science  
Civil Engineering  
West Virginia University

### Registrations

Professional Engineer:  
> West Virginia

Rebecca Y. Morris, PE is a Senior Project Manager in Thrasher's Site Division. She has a main focus on oil and gas and primarily leads work on well pads, M&R pads, and compressor stations. She started with oil and gas as the Marcellus and Utica shale boom came to the region and has stayed in the field because of her passion for the industry – Rebecca thrives on the high-energy, high-intensity atmosphere that comes with oil and gas sites.

In the role of QA/QC, Rebecca oversees and assures the quality of all deliverables and management practices of all disciplines. This includes overseeing critical events, attending client or stockholder meetings, participating in kick-off and milestone meetings, preparing quality control plans, assuring project performance, and meeting client expectations.

### Experience

#### **Morgan Run AMD**

Role: Project Engineer  
> Preston County, WV

#### **Lambert Run Site 5 AMD**

Role: Project Engineer  
> Harrison County, WV

#### **Middle Fork of Greens Run Phase 1 AMD**

Role: Project Engineer  
> Preston County, WV

#### **Sovern Run 62 and Bishoff AMD**

Role: Project Engineer  
> Preston County, WV

#### **Allen Conner/Messenger Site on Glad Run AMD**

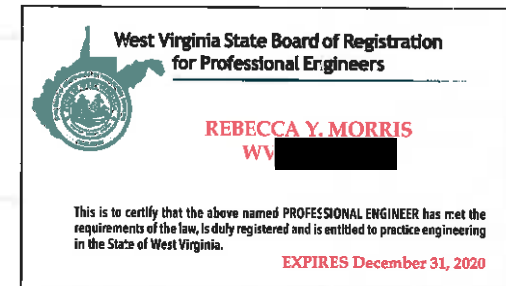
Role: Project Engineer  
> Preston County, WV

# REBECCA Y. MORRIS, PE

QA/QC

<b>Name:</b>	REBECCA Y. MORRIS
<b>WV Professional Engineer:</b>	<b>PE License Number:</b> [REDACTED]
	<b>PE License Status:</b> Active
	<b>PE Issue Date:</b> 06/05/2008
	<b>PE Expiration Date:</b> 12/31/2020
<b>Continuing Education Claim:</b>	<b>Qualifying Hours from Last Renewal or Reinstatement:</b> 32.00
	<b>Carryover Hours for Next Renewal:</b> 2.00
	<b>Last Renewal or Reinstatement Date*:</b> 12/31/2018
<b>WV Engineer Intern:</b>	<b>EI Certification Number:</b> 8672
	<b>EI Issue Date:</b> 04/19/2007
<b>Primary Address of Record:</b>	[REDACTED]
<b>Primary Employer of Record:</b>	THE THRASHER GROUP, INC 600 WHITE OAKS BLVD BRIDGEPORT, WV 26330

\* This date reflects the most recent license renewal (or reinstatement) date for this licensee. Continuing education hours earned prior to this date may not be used for future renewals.



## RJ HOVATTER, PE

Project Manager



### Education

Bachelor of Science,  
Civil Engineering  
Fairmont State University

### Registrations

Professional Engineer:  
> West Virginia  
> Pennsylvania

### Certifications and Trainings

- > Level I Rosgen Natural Stream Construction
- > Level II Rosgen Natural Stream Construction
- > HEC—RAS Operator Training Short Course
- > Annual Oil & Gas Training Pennsylvania—Expedited Review of ESCGP-1
- > MSHA Training

Richard "RJ" Hovatter, PE has spent most of his career working with private and public clients on various site development projects. His team of engineers are able to develop strategies to fit the needs of each client. RJ is well versed in site design, grading, storm water and erosion and sediment control plans. He has also managed over 35 Abandoned Mine Land Emergency and Abandoned Mine Land projects across West Virginia, Maryland, and Ohio. His experience provides clients with the reassurance that projects are inspected thoroughly.

He also leads a team of highly skilled engineers in developing innovative slip remediation projects all across the Appalachian basin. RJ has spent a large portion of his career evaluating critical land slips and assessing feasible, sustainable solutions that serve both public and private entities. His diverse portfolio of work has given RJ a refined eye for potential land issues and slip-prone terrain, which ensures his clients projects are designed on safe, stable sites.

### Experience

#### **WVDEP AML Stowe Landslide Emergency Project**

Role: Project Manager  
> Logan County, WV

#### **WVDEP AML Dansbranch Landslide Emergency Project**

Role: Project Manager  
> Mingo County, WV

#### **WVDEP AML Lyons Landslide Project**

Role: Project Manager  
> Harrison County, WV

#### **WVDEP AML Canyon Refuse and Dump**

Role: Project Manager  
> Monongalia County, WV

#### **WVDEP AML Landgraft Refuse Pile Design**

Role: Project Manager  
> McDowell County, WV

#### **WV DEP Shinns Run Portals**

Role: Project Engineer  
> Harrison County, WV

#### **WestRidge Phase 1 Slip Repair**

Role: Project Manager  
> Monongalia County, WV

# RJ HOVATTER, PE

Project Manager

Name: RICHARD G. HOVATTER, JR

WV Professional Engineer: PE License Number: [REDACTED]

PE License Status: Active

PE Issue Date: 12/17/2009

PE Expiration Date: 12/31/2020

Continuing Education Claim: Qualifying Hours from Last Renewal or Reinstatement: 53.00

Carryover Hours for Next Renewal: 15.00

Last Renewal or Reinstatement Date\*: 12/7/2018

WV Engineer Intern: EI Certification Number: 8494

EI Issue Date: 12/15/2005

Primary Address of Record: 600 WHITE OAKS BOULEVARD  
PO BOX 940  
BRIDGEPORT, WV 26330

Primary Employer of Record: THE THRASHER GROUP, INC.  
600 WHITE OAKS BOULEVARD  
PO BOX 940  
BRIDGEPORT, WV 26330



\* This date reflects the most recent license renewal (or reinstatement) date for this licensee. Continuing education hours earned prior to this date may not be used for future renewals.

## STEVE HEGEDIS

Project Engineer



### Education

Bachelor of Science,  
Environmental Resource  
Management  
Penn State University

Steve Hegedis is an experienced civil site design engineer with an education in environmental resource management. He has a strong background in site design, stormwater design, and engineered natural systems (ENS) design. Prior to joining Thrasher, he worked on a host of energy projects, as well as commercial and residential site developments, and water and stormwater design.

Steve has a thorough knowledge of NPDES permitting, bringing a deep respect for the environmental impact of his work and an important expertise to his clients. Additionally, Steve is a licensed general contractor in West Virginia, giving him a unique dual perspective as he approaches design projects.

### Experience

#### **Chaplin Hill Business Park NPDES Permitting**

Role: Project Engineer

> Monongalia County, WV

#### **Hatfield McCoy Regional Recreation Authority Stormwater Site Design and Welcome Center Project**

Role: Project Engineer

> Logan County, WV

#### **Industrial Park Site Design NPDES Form**

Role: Project Engineer

> Doddridge County, WV

#### **Rt. 50 Site Design Stormwater Design E&S**

Role: Project Engineer

> Harrison County, WV

#### **WestRidge Development Stormwater System Project**

Role: Project Engineer

> Monongalia County, WV

#### **Ronald Lane Ritchie County Industrial Park Site Design & NPDES Permitting**

Role: Project Engineer

> Ritchie County, WV

#### **Ronald Lane, The Quarry Business Park Site Design & NPDES Permitting**

Role: Project Engineer

> Harrison County, WV

#### **Harrison County Power, Harrison Energy Center Site Design and NPDES Permitting**

Role: Project Engineer

> Harrison County, WV

#### **Energy Solutions, Brooke County Power Plant Site Design & NPDES Permitting**

Role: Project Engineer

> Brooke County, WV



## NGE CONSULTING - SUB-CONSULTANT



### Locations

#### West Virginia Office

650 MacCorkle Avenue West  
St. Albans, WV 25177  
P: (304) 201-5180  
F: (304) 201-5182

#### Pennsylvania Office

171 Montour Run Road  
Moon Twp, PA 15108  
P: (412) 722-1970  
F: (412) 722-1929

### Company Overview

NGE was founded in the fall of 2002 by Amy Veltri and John Nottingham, a management team with a combined forty years of industry experience. The family-based entrepreneurial spirit that defined NGE's beginnings remains evident in the innovative solutions we deliver to our loyal clients each and every day. Advances in engineering, science and technology, coupled with regulatory, legal, and compliance pressures create increasingly complex challenges for businesses. NGE strives to keep pace with these changes, with an eye to supporting our clients' changing needs.

NGE has grown into a dependable and flexible environmental and geotechnical consulting firm providing a wide range of professional services, including Environmental Consulting, Geotechnical Engineering and Environmental Construction / Remediation. With clients across the nation, NGE added a second office location in West Virginia in 2003, and seeks to grow in the future by providing consistent, quality service in a family-oriented atmosphere.

Since its inception, NGE has hired and retained the best and brightest talent in the industry. Our staff have relevant experience and qualifications to complete complex environmental and geotechnical projects. NGE's future is bright as we pursue a course of planned, measured growth to meet the challenge of expansion without diluting leadership or weakening the company's ability

to perform. After establishing a solid foundation and longstanding reputation in the region and across the nation as an innovative, sophisticated, forward-thinking environmental and geotechnical consulting firm, we are proud of our roots and the progressive environment we have created for our dedicated employees.

NGE is an organization that is small enough to focus time on each client but with a depth in talent and resources to successfully complete large and complex projects. NGE provides superior environmental and geotechnical services at a manageable price. A family oriented work atmosphere has fostered the growth of NGE's staff with the best and brightest talent in the industry.

NGE has garnered a variety of certifications and awards over the years in the environmental and geotechnical consulting industry. These accomplishments and accolades bear testament to the impeccable standards that we strive to achieve at NGE. They help differentiate our company from our competitors and serve to distinguish our employees as the "best of the best."

## PROJECT EXPERIENCE



### Lyons Residence Landslide

Location: Harrison County, WV

Type of Project: Landslide

Thrasher Project Manager: Chad Biller, PE

Client Contact:

Gregory Smith, PE

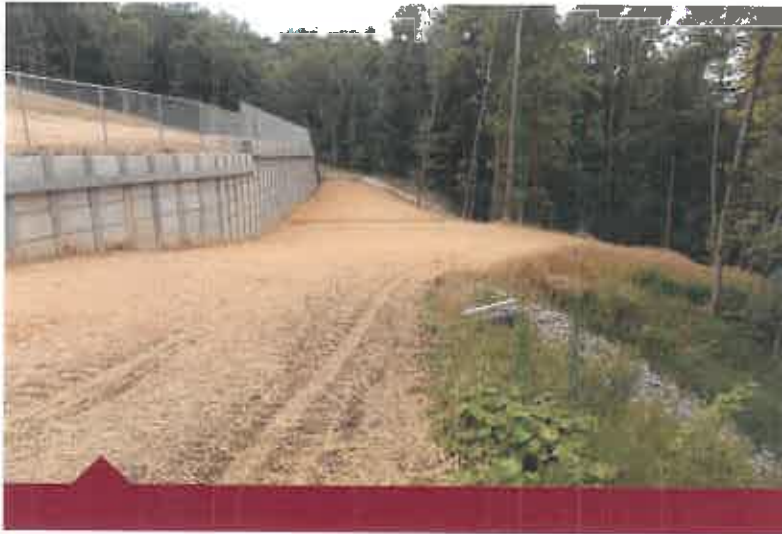
101 Cambridge Place | Bridgeport, WV 26330

304-842-1900

The Lyons residence, located off of route 19 in Clarksburg, suffered a two-acre slide mass above and behind the residence. The mass was composed of strip mine spoil and natural slip-prone material. The Thrasher Group was hired to correct the landslide on the property within state timeframes.

To accomplish this task, Thrasher prepared the site by clearing and grubbing and then disposing of debris. The team then constructed a soldier pile and concrete lagging retaining wall with appurtenances to stabilize the slope above the existing residence and pond. Additionally, underdrains and channels were installed to carry water safely through or around the slip area. Thrasher also regraded the site to the lines and grades shown on the plans, revegetated disturbed areas, and made sure sediment control was in compliance with the approved NPDES permit.

## PROJECT EXPERIENCE



### Nutter Run Landslide

Location: Harrison County, WV

Type of Project: AML Emergency Landslide

Thrasher Project Manager: RJ Hovatter, PE Rob Milne, PE

#### Client Contact:

Eric Simpson, Northern Emergency Engineer

101 Cambridge Place | Bridgeport, WV 26330

304-842-1900

Nutter Run was the site of an emergency AML landslide. The Thrasher Group mobilized the necessary equipment and personnel to complete the project within state timeframes with a construction cost of \$954,750.

Some of the major steps of the project included the following: site preparation (clearing and grubbing, removing existing structures and debris), construction and installation of support areas, maintenance of access roads, construction and installation of drainage control items to convey stormwater off-site, backfilling highwalls, and re-vegetation of disturbed areas.

*The Nutter Run project included a 1 H-Pile Wall ~140' Long and a 1- H-Pile Wall ~200' Long.*

Project  
Highlight

## PROJECT EXPERIENCE



### Ridgeway Landslide

Location: Harrison County, WV

Type of Project: AML Emergency Landslide

Thrasher Project Manager: RJ Hovatter, PE

Client Contact:

Eric Simpson, Northern Emergency Engineer

101 Cambridge Place | Bridgeport, WV 26330

304-842-1900

Ridgeway, in Bridgeport, was the site of an AML emergency landslide that The Thrasher Group repaired. Our team engineered the design of the slip remediation and was responsible for all necessary materials to accomplish that design, from shop drawings to a detailed construction schedule. Thrasher provided all necessary materials and labor for this project. The final result of the project was 1 Soil Nail Wall ~36' and 6,300 cubic yards of Earthwork.

## PROJECT EXPERIENCE



### Stowe Landslide

Location: Logan County, WV

Type of Project: Landslide

Thrasher Project Manager: April Rohrbaugh

#### Client Contact:

Jason Foster, Emergency Program Administrator

601 57th Street, SE, Box 20 | Charleston, WV 25304

304-926-0499

This project involved a 2-acre landslide caused by an abandoned portal blowout. The slide mass was situated directly above a private residence at the base of a steep mountainside. Trees in the mobilized material had already caused damage to the residence's accessory structures and fence. Based on the subsurface investigation and the slide's proximity to the residence, it was determined that the safest and most efficient way to mitigate the slide and prevent future damage to the residence was to remove slide material and excavate/regrade around the landslide to a stable configuration while safely conveying surface and subsurface drainage around and through the site via deep underdrains and riprap/grouted riprap channels. The slide material upon removal was transported to a nearby waste site, spread, dried and compacted. The project site covered a total area of 2.9 acres and reclamation included ± 6,000 cubic yards of earthwork.

## PROJECT EXPERIENCE



### Dans Branch Landslide

Location: Mingo County, WV

Type of Project: AML Emergency Landslide

Thrasher Project Manager: Chad Biller, PE

#### Client Contact:

Jason Foster, Emergency Program Administrator

601 57th Street, SE, Box 20 | Charleston, WV 25304

304-926-0499

Dansbranch was the site of an AML emergency landslide that Thrasher worked to remediate. Some of the major steps of the project included the following: site preparation (clearing and grubbing, removing existing structures and debris), construction and installation of support areas, maintenance of access roads, construction and installation of drainage control items to convey stormwater off-site, ensure sediment control compliance with the NPDES permit, and re-vegetation of disturbed areas. Thrasher also had to protect existing structures during grading operations and the installation of permanent rock fall protection above structures. Construction on this project cost approximately \$352,370.

*This project included 6,500 cubic yards of earthwork and stabilizing the slope behind the residence.*

Project  
Highlight

## REFERENCES



### **City of Ripley**

Ms. Carolyn Rader, Mayor  
203 South Church Street  
Ripley, WV 25271  
304-532-3657


### **West Ridge Development**

Mr. Aaron Humberson  
PO Box 4034  
Morgantown, WV 26504  
304-212-3355 ext 108

### **Hatfield McCoy Regional Recreation**

Mr. Jeffrey Lusk, Executive Director  
PO Box 146  
Logan, WV 25635  
304-752-3255

**DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

 Project Manager

(Name, Title)

Richard Hovatter, PE - Project Manager

(Printed Name and Title)

600 White Oaks Blvd, Bridgeport, WV 26330

(Address)

304-624-4108 / 304-624-7831

(Phone Number) / (Fax Number)


rhovatter@thetrashergroup.com

(email address)

**CERTIFICATION AND SIGNATURE:** By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

The Thrasher Group, Inc.

(Company)

 Project Manager

(Authorized Signature) (Representative Name, Title)

Richard Hovatter, PE - Project Manager

(Printed Name and Title of Authorized Representative)

November 26, 2019

(Date)

304-624-4108 / 304-624-7831

(Phone Number) (Fax Number)



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

Name of Contracting Business Entity: The Thrasher Group, Inc. Address: 600 White Oaks Blvd,  
Bridgeport, WV 26330

Name of Authorized Agent: Richard Hovatter Address: \_\_\_\_\_

Contract Number: CEOI 0313 DEP200000000002 Contract Description: EOI - Camden (Wilson) Landslide

Governmental agency awarding contract: West Virginia Department of Environmental Protection

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: 11/22/2019

**Notary Verification**

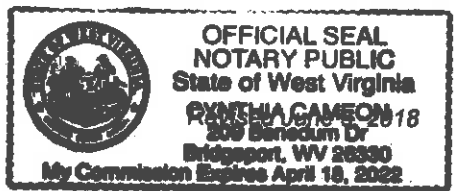
State of WV, County of Harrison:

I, Richard Hovatter, 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 22<sup>nd</sup> day of November, 2019

  
Notary Public's Signature

**To be completed by State Agency:**  
Date Received by State Agency: \_\_\_\_\_  
Date submitted to Ethics Commission: \_\_\_\_\_  
Governmental agency submitting Disclosure: \_\_\_\_\_





**COMPLEX PROJECTS  
REQUIRE RESOLVE**

**THRASHER'S GOT IT**