



West Virginia Purchasing Division

2019 Washington Street, East
Charleston, WV 25305
Telephone: 304-558-2306
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The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at wvOASIS.gov. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at WVPurchasing.gov with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header @ 1

List View

General Information | Contact | Default Values | Discount | Document Information | Clarification Request

Procurement Folder: 1047660

Procurement Type: Central Purchase Order

Vendor ID: 000000204787

Legal Name: THE THRASHER GROUP INC

Alias/DBA:

Total Bid: \$0.00

Response Date: 06/23/2022

Response Time: 9:53

Responded By User ID: Thrasher

First Name: Caroline

Last Name: Marion

Email: cmarion@thethrashergroup.c

Phone: 304-624-4108

SO Doc Code: CEOI

SO Dept: 0313

SO Doc ID: DEP2200000017

Published Date: 5/31/22

Close Date: 6/23/22

Close Time: 13:30

Status: Closed

Solicitation Description: EOI - 2022 AML Contract 8 Project North

Total of Header Attachments: 1

Total of All Attachments: 1



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

**State of West Virginia
 Solicitation Response**

Proc Folder: 1047660
Solicitation Description: EOI - 2022 AML Contract 8 Project North
Proc Type: Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2022-06-23 13:30	SR 0313 ESR06232200000008034	1

VENDOR
 000000204787
 THE THRASHER GROUP INC

Solicitation Number: CEOI 0313 DEP2200000017
Total Bid: 0
Response Date: 2022-06-23
Response Time: 09:53:12
Comments: n/a

FOR INFORMATION CONTACT THE BUYER

Joseph E Hager III
 (304) 558-2306
 joseph.e.hageriii@wv.gov

Vendor Signature X **FEIN#** **DATE**

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Professional Svcs - Brownton Refuse #2				0.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments: n/a

Extended Description:

Professional Svcs - Brownton Refuse #2

THRASHER



WV DEPARTMENT OF ENVIRONMENTAL PROTECTION

Brownton Refuse #2

CEOI 0313 DEP2200000017

Submitted by:
The Thrasher Group, Inc.
June 23, 2022

June 23, 2022

Attn: Mr. Joseph E Hager III
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

RE: WVDEP - Brownton Refuse #2

Dear Mr. Hager and Selection Committee Members:

The Thrasher Group, Inc. is pleased to present our qualifications to the West Virginia Department of Environmental Protection for the Brownton Refuse #2 project. As a West Virginia-based company that has been serving the state for nearly 40 years, we take pride in projects that improve our state's landscape and restore the safety of our infrastructure.

Thrasher has a longstanding reputation for successfully completing Abandoned Mine Land projects, from emergency repairs, AMLER, traditional grant projects and everything in between. Our team has been involved in numerous AMLER projects, for which we completed the NEPA documentation and provided survey and mapping services, as well as construction inspection. Our experience will allow us to work with you to efficiently identify project goals, establish accurate budgets, and develop successful outcomes for each of the projects.

Our portfolio is full of projects that meet the criteria you are looking for, including AMD mitigation and a wide variety of other related scopes. We consider ourselves a partner with WVDEP and our support spans beyond general infrastructure to include true community projects.

We appreciate the opportunity to partner with you and look forward to further speaking with you about the needs of this project.

Sincerely,
The Thrasher Group, Inc.



Richard Hovatter, PE
Project Manager



*Qualifications, Experience,
and Past Performance*



- > Survey/Aerial Mapping
- > Environmental
- > Site Engineering
- > Construction Services
- > Utility Engineering
- > Transportation
- > Architecture

Main Point of Contact:

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



39

YEARS
of delivering
successful
projects



5

OFFICES
in West Virginia:
Bridgeport
Beckley
Charleston
Scott Depot
Martinsburg



300+

EMPLOYEES

- 34** Licensed Professional Engineers
- 10** Licensed Professional Surveyors
- 6** Licensed Professional Architects
- 2** Licensed Professional Landscape Architects



Diverse services that grow communities.

THRASHER'S GOT IT.

FIRM HISTORY

With a commitment to building business through “successful projects and repeat clientele”, H. Wood Thrasher, PE and the late Henry A. Thrasher, PE - formed Thrasher Engineering, Incorporated in Clarksburg, West Virginia in 1983. Since that time, the company, now known as The Thrasher Group, Inc. has grown into one of the Mid-Atlantic Region’s largest full-service privately owned architectural and engineering firm.

Publicly funded projects have been the backbone of the company, and continue to be a large part of our engineering division. Thrasher has grown from its original three employees to a current staff of over 300 and continues to prosper. Instilled in each employee is a commitment to maintaining the highest standards of professional service.

The Thrasher Group is a full-service firm providing architecture, engineering, and field services such as environmental, survey, materials testing, and construction management. Our team has the experience, knowledge, versatility, and integrity to get the job done. With a 39-year history of driving infrastructure development for public and private clients, we have a reputation of keeping our word and completing projects on time and on budget. Thrasher is one of the fastest-growing A/E firms in the Mid-Atlantic region with eight offices located in the Appalachian Basin.



Diverse services that grow communities.

THRASHER'S GOT IT.



AML DESIGN

The Thrasher Group has provided design services to a number of Abandoned Mine Lands projects over the years. We are leaders in the industry, having completed projects for emergency repairs, using AML grants, and as part of the AML Pilot Program.

Our team has been a part of all types of AML work, including, but not limited to:

- » Highwalls
- » Portals
- » Slope Stabilization
- » Landslides
- » AMD Treatment
- » Refuse and Dump Improvements
- » Drainage Control

Drainage Design: All AML projects completed by Thrasher have required design of drainage structures. These have included vegetated, grouted, riprap channels, as well as culverts and storm sewers. Drainage calculations are 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 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 Corp 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.



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.

Thrasher's offers a range of environmental services, from abandoned mine land reclamation to stream and wetland delineations and everything in between. We have extensive experience with site assessments, permitting, and every aspect of environmental work that your project will encompass.

In addition, our team has a host of experience with Abandoned Mine Land (AML) projects and are familiar with the intricacies involved

Environmental Services:

- > All Appropriate Inquiry (AAI)
- > Environmental Site Assessments
- > NEPA Compliance for Publicly Funded Projects
- > Ecological Studies
- > Brownfield Redevelopment
- > Industrial Hygiene and Demolition Planning
- > Underground Storage Tank (UST) Consulting Services
- > Wetland Delineation, Design, and Mitigation
- > Remediation Investigation, Feasibility Studies, and Design
- > Hydrogeologic and Geologic Investigations
- > Groundwater Monitoring
- > Sampling and Laboratory Analysis
- > Solid and Hazardous Waste Management
- > SPCC, GPP, SWPPP, GWPP, SWPPP Environmental Compliance
- > Coal Combustion Residuals Rule Compliance (CCR)
- > Stream Assessments, Design, and Mitigation
- > Erosion and Sediment Control Plans
- > Voluntary Remediation Program
- > Uniform Environmental
- > Covenants Act
- > CERCLA Preliminary Assessment
- > CERCLA Site Investigation



ENVIRONMENTAL PERMITTING

The Environmental Division of the Thrasher Group provides permitting, consulting, and assessment services to a multitude of clients spanning the Mid-Atlantic region. With a combined 40 years of permitting experience, Thrasher's Environmental Scientists, Permitting Leads, and Project Managers are able to take even the most complex and time restrictive projects and provide clients with cost effective and timely solutions.

Federal Permitting

- > National Historic Preservation Act - Section 106 Consultation
 - > *State Historic Preservation Office or Division of Culture and History*
- > Endangered Species Act – Section 7 and Section 9 Consultations
 - > *United States Fish and Wildlife Service*
- > Clean Water Act – Section 404 Permits
 - > *United States Army Corps of Engineers*

- > National Environmental Policy Act – Categorical Exclusions, Environmental Assessments, and Short Environmental Assessment Forms
 - > *United States Army Corps of Engineers; Federal Aviation Administration; Division of Transportation; and Federal Communications Commission*

State and Local Permitting

- > State Responsible Regulations of the Clean Water Act – Section 401 and 402 Permits
- > State Level Rare, Threatened, or Endangered Species Consultations
- > State Level Aquatic Resource Encroachment and Impact Permits
- > State Level Roadway Encroachment, Crossing, and Occupancy Permits
- > State Level Industrial Waste Discharge Permits
- > Local Level Floodplain or Building Permits



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

GPS Surveys:

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

General Survey Services:

- > Large-Scale Boundary Work
- > Topographic Survey and Mapping
- > ALTA/ACSM Survey and Mapping
- > Lake and River Soundings
- > Accident Reconstruction Survey & Mapping
- > Drug-free Zone 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

Coal and Energy Surveys:

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



AERIAL MAPPING AND LIDAR

The Thrasher Group has been providing the Mid-Atlantic region with top-of-the-line aerial mapping services for years. Thrasher's staff includes an ASPRS Certified Photogrammetrist who has the capability to offer high detail, low-altitude imagery upon request.

We have strategic locations all across the Mid-Atlantic region, but we can map ANYWHERE. No project is too large, too small, or too far away. If you need it mapped, Thrasher can map it.

Aerial Mapping and LiDAR Services:

- > LiDAR
- > Orthophotography
- > Aerial Mapping
- > Surface Modeling
- > Pipeline and Powerline Monitoring
- > Drone/UAV Services
- > Stockpile Volumes
- > Infrared Imaging
- > Thermal Imaging
- > Remote Aerial Inspection
- > Airborne GPS
- > Aero-Triangulation
- > 3D Fly-throughs
- > Low Altitude Video
- > GIS
- > Teaming and Support



CONSTRUCTION ADMINISTRATION

Effective management of our projects ensures that both clients and contractors work in an efficient and safe manner. From pre-construction activities - such as bid conferences and surveys - to inspections, job progress reviews, and on through final completion, our goal is work that proceeds in accordance with plans and specifications.

At Thrasher, we inspect and manage a wide variety of projects designed by our firm in addition to projects for contractors and other designers. We have certified project representatives responsible for overseeing every element of design integrity. Our methods have earned the respect of not only our clients, but contractors and project owners alike.

Construction Inspection Services:

- > Construction Materials
- > Pipelines
- > Structural Steel & Concrete
- > Paving
- > Drainage
- > Embankments
- > Work Zone Safety & Traffic Control
- > Erosion and Soil Control

Quality Control and Assurance Methods:

- > Regularly Scheduled Planning and Progress Meetings
- > Engineering During Construction
- > Daily Logs and Progress Sheets
- > Cut Sheets
- > Quantity Tracking



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



MATERIALS TESTING

At Thrasher, we inspect and manage a wide variety of projects designed by our firm in addition to projects for contractors and other designers. We have certified project representatives responsible for overseeing every element of design integrity. From pre-construction activities - such as bid conferences and surveys - to inspections, job progress reviews, and on through final completion, our goal is work that proceeds in accordance with plans and specifications.

Thrasher's Construction Services Division is capable of performing a wide range of field and laboratory tests. Our laboratory is nationally AMRL & CCRL certified to perform in-depth testing for a variety of clientele. All of our labs serve as resources for our engineers and project representatives who perform tests both in the field and in the lab to best serve our clients' needs.

The Thrasher team possesses expertise in every facet of material and laboratory testing and is trained to industry standards in these disciplines. We pride ourselves on being a partner in projects and providing excellent service and testing results.

Materials Testing and Laboratory Expertise:

- > Concrete Testing and Inspection
- > Soil Testing and Inspection
- > Aggregate Testing and Inspection
- > Mortar and Grout
- > Steel, Welds, and Rebar Inspection
- > Asphalt
- > Paint Coatings
- > Sprayed-on Fireproofing
- > Subsidence Testing
- > Caisson and Piling inspection
- > Engineering During Construction
- > Regularly Scheduled Progress Meetings
- > Daily Logs and Progress Sheets
- > Digital Photo Logs
- > Cut Sheets
- > Quantity Tracking



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 systems are 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, storm water 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 storm water 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 and 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.

STAFFING PLAN



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Chad Biller, PE
Principal-in-Charge

RJ Hovatter, PE
Project Manager

John Pitman, EI
Project Engineer

Danny Wolfe
Project Designer

Austin Thrasher, EI
Construction Services Director

Mike Woodall
Right-of-Way Acquisition

Gina Panasik, MS
Environmental Scientist

Aaron Rawe, PS
Professional Surveyor

Craig Fry, CP
Aerial Mapping Specialist



NGE
Geotechnical Sub-Consultant

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 assisting our Land Development Market, 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

Landgraft Refuse Pile

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

WVDEP AML

Stowe Landslide

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

WVDEP AML Anglins Run

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

WVDEP AML Squires Creek

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

WVDEP AML

Isaac Creek Landslide

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

WVDEP AML Owl Creek Highwall #2 Refuse

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

Licensure Verification

Search: Details

Name:	CHADWICK D. BILLER
WV Professional Engineer:	PE License Number: [REDACTED]
	PE License Status: Active
	PE Issue Date: 02/23/1998
	PE Expiration Date: 12/31/2022
Continuing Education Claim:	Qualifying Hours from Last Renewal or Reinstatement: 85.00
	Carryover Hours for Next Renewal: 15.00
	Last Renewal or Reinstatement Date*: 12/21/2020
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
	<p>* 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.</p>

RJ HOVATTER, PE

Project Manager



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.

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

Experience

WVDEP AML Bloomingrose (Tincher) Burning Refuse Project

Role: QA/QC
> Boone 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

WVDEP AML Isaac Creek Landslide

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

WVDEP AML Stowe Landslide Emergency

Role: Project Manager
> Logan County, WV

WVDEP Subsidence Depressions

Role: Project Manager
> Various Locations, WV

WVDEP AML Dansbranch Landslide Emergency Project

Role: Project Manager
> Mingo County, WV

WVDEP AML Lyons Landslide

Role: Project Manager
> Harrison County, WV

WV AML DEP Shinns Run Portals

Role: Project Engineer
> Harrison County, WV

WestRidge Phase 1 Slip Repair

Role: Project Manager
> Monongalia County, WV

Licensure Verification

Search: Details

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: 12/31/2022
Continuing Education Claim:	Qualifying Hours from Last Renewal or Reinstatement: 30.00
	Carryover Hours for Next Renewal: 0.00
	Last Renewal or Reinstatement Date*: 12/30/2020
WV Engineer Intern:	EI Certification Number: 8494
	EI Issue Date: 12/15/2005
Primary Address of Record:	[REDACTED]
Primary Employer of Record:	THE THRASHER GROUP, INC. 600 WHITE OAKS BOULEVARD PO BOX 940 BRIDGEPORT, WV 26330
	<p>* 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.</p>

JOHN PITMAN, EI

Project Engineer



Education

Bachelor of Science,
Civil Engineering
West Virginia University

Registrations

Registered Engineering Intern:
> West Virginia

John Pitman joined Thrasher in 2012 and he serves as a grading and utility engineer. He is a site/civil designer with tasks including the development of existing conditions, demolition, erosion and sediment control, site, grading, and utility plans along with creating details for site specific elements.

Mr. Pitman is also an experienced highway designer with a background in the preparation of roadway construction, right-of-way, sign, and pavement marking plans. Other responsibilities include performance of field surveys and construction stake out, traffic studies, fire hydrant testing, storm water and sanitary sewer design, and cost estimation.

Experience

WVDEP AML

Landgraff Refuse Pile

Role: Project Engineer
> Wyoming County, WV

WVDEP AML

Owl Creek Highwall

Role: Project Engineer
> Monongalia County, WV

WVDEP AML

Isaac Creek Slip Repair

Role: Project Engineer
> Harrison County, WV

Rustic Ravines, Inc.

AMLER Project

Role: Project Engineer
> Wayne County, WV

Hatfield-McCoy

Regional Recreation Authority

Twin Hollow Campgrounds

AMLER Project

Role: Project Engineer
> Logan County, WV

DANNY WOLFE

Project Designer



Danny Wolfe is a Computer Aided Site Designer\Manager for the energy market at Thrasher. He provides layout and design based on the needs and budget of the clients. Danny has over two decades of experience designing and coordinating residential, commercial, and energy development projects to ensure project goals are accomplished within the client's time frame and funding parameters.

Experience

WVDEP AML

Kempton Refuse Rehabilitation

Role: CAD Designer
> Tucker County, WV

WVDEP AML

Long Run #3 Highwall

Role: CAD Designer
> Taylor County, WV

Chevron

Well Pads Development

Role: CAD Designer
> Wetzel and Marshall
Counties, WV

Enerplus Resources

Well Pad Development

Role: CAD Designer
> Centre County, PA

Chesapeake Energy

Well Pad Development

Role: CAD Designer
> Union, Delaware, and
Licking Counties, OH

Eclipse Resources

Well Pad Development

Role: CAD Designer
> Monroe and Belmont
Counties, OH

AUSTIN THRASHER, EI

Construction Services Director



Education

Bachelor of Science
Civil Engineering Technology
Fairmont State University

Registrations

Registered Engineering Intern:
> West Virginia

Affiliations

> Harrison County United Way
> Harrison County Chamber of
Commerce

Certifications

> SafeLandUSA
> OSHA10-Hour
> HDPE Pipe Fusion
> ACI Concrete Field Testing
Technician – Grade I

Austin Thrasher serves as Director of Construction Services. With more than 12 years at the firm, Austin has gained a wide variety of knowledge and experience with projects of all types. He first started as a survey technician for Thrasher, before moving into the Construction Services division. He worked his way through the ranks over the years, providing everything from hands-on project representation services to project engineering, and project management.

Austin has handled a variety of work on large-scale developments, as well. Most notably, he provided project oversight for the White Oaks Business Development in Bridgeport. This project was a multi-disciplinary effort for the Thrasher team, with Austin at the helm coordinating all aspects.

This range of experience with boots-on-the-ground work and large engineering projects has informed Austin's approach to oversight of the department. He has a true understanding of the work it takes to complete a project and how to coordinate the right personnel for the right projects.

Experience

**White Oaks Phase II
Contracts 1, 2, and 3**
Role: Construction Manager
> Harrison County, WV

**White Oaks Retail Village II,
Mark Southern Development,
White Oaks Professional
Building Six, White Oaks Phase
IIA, White Oaks Phase III**
Role: Project Engineer and
Owner's Project Manager
> Harrison County, WV

**UHC East
Addition & Parking Project**
Role: Project Manager
> Harrison County, WV

FBI Square
Role: Project Manager
> Harrison County, WV

**Rosemont & RT 76
Area upgrades Contracts 1-2**
Role: Lead RPR
> Taylor County, WV

**Mountain Top Beverage
New Facility**
Role: Director of
Construction Services
> Monongalia County, WV

**Equitrans NITMS004
SPLA-0308**
Role: Construction Manager
> Greene County, PA

MIKE WOODALL

Right-of-Way Acquisition



Mike Woodall is one of the most seasoned construction services professionals at Thrasher. He has been a part of our team for 20 years and has developed an expert level skill set. Mike is extensively trained and experienced with all aspects of construction management, project inspection, and materials testing. He brings a civil focus to construction projects, an important perspective to any building site. Mike has spent a large portion of his career working in Thrasher's laboratories on soil, concrete and aggregate testing. Mike will serve as the Field Services Manager, acting as the primary technical resource for our field testing technicians and inspectors. Mike currently is an active member of a materials testing team in Morgantown.

Certifications

- > ACI Field Testing Technician
- > ACI Aggregate Base
- > WVDOH Soil and Aggregate Compaction Technician (S.A.C.T.)
- > WVDOH PCC Inspector
- > WVDOH Aggregate Sampling Inspector
- > WVDOH TRET - Level III
- > VDOT Asphalt - Level I
- > VDOT Asphalt - Level II
- > VDOT Soils and Aggregate
- > VDOT Concrete Field
- > VDOT Work Area Protection
- > VDOT Intermediate Work Zone (Temporary Traffic Control)
- > PE Plastic Fusion Joining Certification
- > KTA Paint Coating Certified
- > American Concrete Institute Certification
- > Soil Compaction - Nuclear Radiation Gauge
- > API-1169 Pipeline Construction Inspector

Affiliations

- > OQ401 Fusion Inspector Training
- > OSHA 10
- > SafeLand USA
- > Veriforce Training
- > Energy Innovation
- > First Aid/CPR

Experience

North Central West Virginia Airport Runway

Safety Area Improvements
Role: Construction Inspection
> Harrison County, WV

Stout Slip Repair Construction Management
Role: Construction Inspection
> Doddridge County, WV

West Virginia High Tech Consortium Project
Role: Construction Inspection
> Marion County, WV

White Oaks Business Park Development
Role: Senior Project Representative
> Harrison County, WV

Mountain Top Beverage New Facility
Role: Construction Inspection
> Monongalia County, WV

Wolfe Creek Community Park Project
Role: Senior Construction Manager
> Fayette County, WV

WVDOH Chestnut Ridge Road
Role: Construction Inspection
> Harrison County, WV

Parker Hollow Dam Army Corp of Engineers Materials Testing and Quality Assurance
Role: Construction Inspection
> Hardy County, WV

Dominion Energy Greens Run Slip Repair
Role: Construction Inspection
> Harrison County, WV

GINA PANASIK, MS

Environmental Scientist



Education

Master of Science,
Marine Biology
UNC Wilmington

Bachelor of Arts,
Biology
Specialty in Marine Biology
Boston University

Registrations

PA DCNR Wild Plant
Management Permit
> Pennsylvania

Affiliations

> Society of Wetland Scientists
> Women's Energy Network

Trainings

> Ohio LTAP NEPA Training
> Delaware DNR and Delaware
Center for the Inland Bays
Livings Shorelines Workshop
> Lorman Education Services:
Streambank Stabilization Using
Soil Bioengineering Treatments
> Women's Energy Network:
Risk Mitigation; Geotechnical
Engineering within the
Marcellus & Utica
> The Swamp School Wetland
Delineation
> Wetland Training Institute:
Planning Hydrology,
Vegetation, and Soils for
Constructed Wetlands
> The Swamp School: 40-hour
Basic Wetland Delineation
> Wikes University Center
for Continued Learning:
Introduction to Hydric Soils

Gina Panasik has over 22 years of experience working in both the academic and private sector performing environmental research, field studies, and environmental permitting. She has experience in 10 states along the eastern seaboard, from Massachusetts to North Carolina and into Michigan. Gina's environmental work has included wetlands delineation and mitigation; NEPA Environmental Assessments and Categorical Exclusions; FERC Resource Reports; Phase I ESAs; soil sampling; groundwater sampling; Federal, state, and local environmental permitting; and rare, threatened, and endangered species surveys for bats and plants. Gina also has experience working with several Federal agencies on funding for projects including the FAA, FHWA, OSMRE, and the USDA RD and USDA RUS.

Gina has also worked with a number of established companies in the energy sector, including Antero, Shell, Chevron, Spectra, Williams, and Tesla. During this time, she developed permitting for pads and linear projects as well as solar fields.

Experience

Hatfield-McCoy
Ivy Branch Trail
AML/WVDEP Permitting
Role: Permitting Specialist
> Mercer County, WV

Eastern West Virginia
Regional Airport
NEPA Services
Role: Project Manager
> Berkeley County, WV

Benedum Airport Authority
New Terminal
Role: Permitting Specialist and
NEPA Document
> Harrison County, WV

WestRidge Development
Role: Permitting Specialist
> Monongalia County, WV

Hanscom Air Force Base
NEPA Services
Role: Environmental
Assessment
> Middlesex County, MA

Patriot Golf Course
NEPA Services
Role: Environmental
Assessment
> Middlesex County, MA

**NEPA (field work and EA/
FONSI) for the Air Force**
Role: Environmental Scientist
> Middlesex County, MA

AARON RAWE, PS

Professional Surveyor



Education

Associates of Science,
Surveying Technology
Glenville State College

Registrations

Professional Surveyor:

- > West Virginia
- > Kentucky

Affiliations

- > West Virginia Society of
Professional Surveyors

Certifications

- > Safeland
- > OSHA Training
- > First Aid and Medical
Emergency Action Procedure

Aaron Rawe serves as a Survey Project Manager for Thrasher working out of the Bridgeport office. Mr. Rawe's experience covers various aspects of surveying, including routing, as-builts, preliminary, construction stakeout and boundary of construction management. Mr. Rawe is experienced both in the field and orchestrating projects behind the scenes. Aaron brings over six years of pipeline and asset management experience to the team.

As part of his management role, Mr. Rawe also meets with project stakeholders, area residents, local utility companies, and the project engineers to ensure that schedules are being met and to regularly update all parties on construction status. Additionally, Mr. Rawe is progressively responsible for the coordination of field crews, data collection, site layouts, ALTA surveys, subsidence and topographic surveys.

Mr. Rawe also assists in the management of the Mapping Department here at Thrasher. He is responsible for the coordination between photogrammetrist and field crews in helping determine the placement of photo targets and items to be located for photo control. He helps process and QA, QC all data coming in from the field before delivering it to the photogrammetrist to use for the air trig of the projects.

Experience

WVDEP Camden Slips

Role: Survey Manager
> Lewis County, WV

City of Morgantown Transfer Station

Role: Survey Manager
> Monongalia County, WV

Metro Towers Topo Control and Property Location Surveys

Role: Survey Manager
> Monongalia County, WV

ALTA Surveys

Role: Survey Manager
> Monongalia County, WV

Boy Scouts of America Welcome Center 200 Acre Site Survey, Topographic, and Utility Surveys

Role: Survey Manager
> Fayette County, WV

Ruby Memorial Hospital Building and Utility Location Surveys







Role: Survey Manager
> Monongalia County, WV

Williams Field Services Oak Grove

Role: Survey Manager
> Marshall County, WV

AARON RAWE

Professional Surveyor

<p>2022 WEST VIRGINIA PROFESSIONAL SURVEYOR 2022</p> <p>The West Virginia Board of Professional Surveyors certifies that the individual listed below is a PROFESSIONAL SURVEYOR who has qualified for a license under Chapter 30, Article 13A, Code of West Virginia, and has met the requirements for license renewal for the period ending June 30, 2022</p>		
	<p>AARON J. RAWE P.S. [REDACTED]</p>	
<p><u>Board Members</u> Sefton Stewart, PS, Chairman Tom Rayburn, PS, Secretary Gary Facemyer, PE, PS Lantz Rankin, PS Douglas McElwee, Esq.</p>	<p>Issued 07/01/2021</p> 	<p>Expires 06/30/2022</p> 
	<p><u>Executive Director</u> Amber Shawver Legg</p>	
<p>2022</p>  <p>Expires: 06/30/2022</p>	<p>State of West Virginia Board of Professional Surveyors</p> <p>AARON J. RAWE P.S.LIC [REDACTED]</p> <p>Is a PROFESSIONAL SURVEYOR who has qualified for a license under Chapter 30, Article 13A, Code of West Virginia, and has met the requirements for license renewal for the period ending June 30, 2022</p>	<p>State of West Virginia Board of Professional Surveyors 1124 Smith Street, Suite B127C Charleston, WV 25301</p> <p>Phone (304) 558-0350 Fax (304) 558-0352</p> <p>Website: www.wvbps.wv.gov Email: wvbps@wv.gov</p>

CRAIG FRY, CP

Aerial Mapping Specialist



Craig Fry, CP has 23 years of experience in geospatial technologies. He is an expert in photogrammetry, UAV mapping, and remote sensing. Craig has experience with the following UAS Platforms: DJI M600 Pro, Pulse Aerospace Vapor 55 and DJI Phantom. Sensors include: Reigl VUX-1LR (LiDAR Sensor), Phase One iXU 150 (mapping grade camera), Sony A7r (high resolution camera), Zenmuse X5 (high resolution camera), and the Zenmuse XT2 (thermal camera). Software expertise includes: VrOne/VrTwo, Global Mapper, Pix4D, Map Pilot, and DJI's suite of applications.

Education

Bachelor of Science,
Geography
Pennsylvania State University

Registrations

> FAA License Number:
[REDACTED]

Experience

WVDEP

Stereo 3D Drone Mapping

Role: Aerial Mapping Specialist
> Various Counties, WV

WVDEP AML

Squires Creek

Refuse and Portals

Role: Aerial Mapping Specialist
> Preston County, WV

WVDEP AML

Lamberts Run Site #7

Role: Aerial Mapping Specialist
> Harrison County, WV

WVDEP AML

Swamp Run Refuse #1

Role: Aerial Mapping Specialist
> Preston County, WV

WVDEP AML

Owl Creek High Wall #2

Role: Aerial Mapping Specialist
> Monongalia County, WV

WVDEP AML

Canyon Refuse and Dump

Role: Aerial Mapping Specialist
> Monongalia County, WV

CNX DTI

Storage Lease Mapping

Role: Aerial Mapping Specialist
> Ritchie, Gilmer, Doddridge,
Lewis and Harrison Counties,
WV

Northern WV and

Southwestern PA

Orthophotography and LiDAR

Role: Aerial Mapping Specialist
> Various Counties, WV and PA

Countywide

Orthophotography and LiDAR

Role: Aerial Mapping Specialist
> Ohio County, WV

Countywide

Orthophotography and LiDAR

Role: Aerial Mapping Specialist
> Doddridge County, WV

CNX Gas Stereo 3D Mapping

Role: Aerial Mapping Specialist
> Various Counties, PA

DAC Energy

Stereo 3D Drone Mapping

Role: Aerial Mapping Specialist
> Various Counties, PA



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.

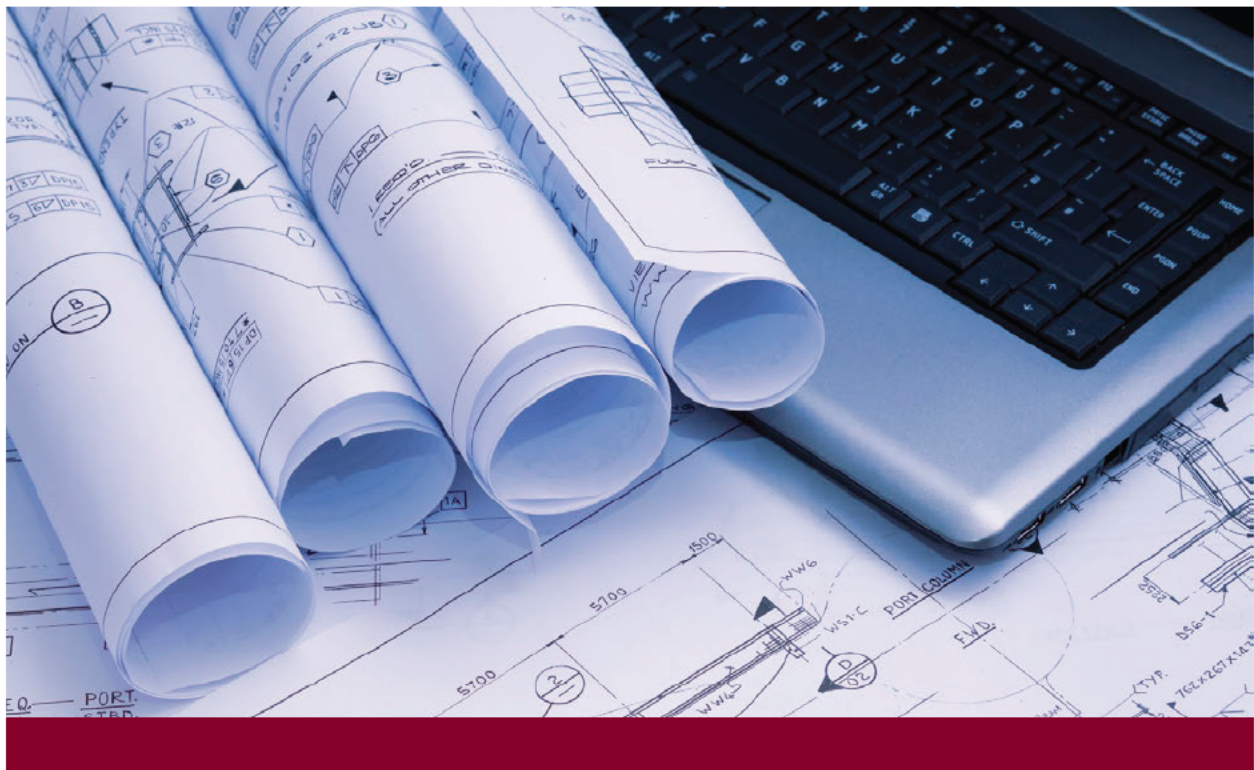
Since its inception, NGE has hired and retained the best and brightest talent in the industry. Our staff have relevant experience and qualifications to complete complex environmental and geotechnical projects. NGE's future is bright as we pursue a course of planned, measured growth to meet the challenge 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."

WORKLOAD AND AVAILABILITY

The Thrasher Group's current workload will allow for immediate response to your needs. You will have specifically appointed team members whose schedules will allow flexibility to enable them to fulfill all delivery orders. In addition to these dedicated staff members, Thrasher has the ability to provide additional assistance as needed. The company boasts a staff of more than 300 people in five states, allowing us – if necessary – to pull more personnel to provide a timely response to your needs. This amount of available staff enables us to adjust workloads to ensure the resources needed to meet all project requirements and deadlines are made available, as well as to provide the depth of expertise needed to address any planning, engineering or other challenges which arise. Using a combination of technology and business acumen, Thrasher is better able to support all aspects of a project to the extent requested by our clients. By integrating the mapping, engineering, architectural, planning, surveying, environmental, construction monitoring and materials testing staff, we are able to provide a wealth of experienced talent, bringing the best minds and proven methods to every job.





WVDEP AML Bloomingrose (Tincher) Burning Refuse

Location: Boone County, WV

Type of Project: Burning Refuse Reclamation

Thrasher Project Manager: Zachary Wright and Brian Knight

Client Contact:

Mr. Patrick Murphy,
Southern Emergency Engineer
1159 Nick Rahall Greenway
Fayetteville, WV 25840
304-574-4465

Bloomingrose was a surface refuse fire that was affecting air quality in the community. Thrasher produced the design plans and specifications to mitigate the burning refuse pile, temporary stream crossings, erosion control, surveying, and utility coordination. Thrasher also conducted the pre-bid meeting for this project.



Squires Creek, located in Newburg, had two refuse piles covering two to three acres of land. The site had remains of a mine building, unvegetated coal refuse, deep mine portals, and acid mine drainage. Nearly all of the land was unvegetated with signs of severe erosion. Additionally, there were several public safety hazards: steep outcrops with well-used ATV trails up and down the face and deep mine portals, one of which was open enough to easily allow entrance.

Some of the major steps of the project included the following: site preparation (clearing and grubbing, removing debris), construction and installation of support areas, maintenance of access roads, construction and installation of drainage control items, re-vegetation of disturbed areas, and regrading of portal sites and refuse sites.

WVDEP AML Squires Creek Refuse

Location: Preston County, WV

Type of Project: Refuse and Portals

Thrasher Project Manager: Chad Biller

Client Contact:

Mr. Gregory Smith, PE

101 Cambridge Place | Bridgeport, WV 26330

304-842-1900

PROJECT EXPERIENCE



This project located in Clarksburg, WV involved 3 wet-seal portals that drain into a 0.7 acre impoundment. The three portals discharge approximately 500 to 3,000 gallons per minute of iron laden water into the main stem of Lambert Run. This project is another in a series of projects aimed at removing Lambert Run (WV MW-16) from the state's 303(d) list of impaired watersheds. This is a project which will combat acid mine drainage emanating from three portals in the central region of the Lambert Run watershed.

Thrasher's plan for the project included, constructing, aeration channels and approximately 4 acres of aerobic wetlands to provide passive treatment of AMD. The proposed treatments have been designed to remove approximately 80% of the acid load.

WVDEP AML Lambert's Run Site #7

Location: Harrison County, WV

Type of Project: Portals

Thrasher Project Manager: Chad Biller

Client Contact:

Guardians of the West Fork

Mr. John Eleyette

830 Benoni Avenue | Fairmont, WV 26554

304-627-1019

PROJECT EXPERIENCE



This project, located in Alton, WV, involved a large ferric iron "mushroom" that takes up approximately 0.87 acres. This was caused by acid mine drainage (AMD) emanating from an entombed refuse fill above an unnamed tributary of Swamp Run. The Swamp Run #1 passive AMD treatment system utilized open limestone channels channeling the toxic water to a forebay, which controls larger storm event flow and separates that flow between primary and secondary limestone leech beds. These beds are self-flushing with an automated inline water level control structure. The treated water from the leech beds will then discharge into flushing ponds for solids removal before being conveyed into a wetland finishing pool prior to being released back into the unnamed tributary.

The proposed treatments have been designed to remove approximately 80% of the acid load and should have a lifespan of 20 years.

WVDEP AML Swamp Run Refuse #1

Location: Preston County, WV

Type of Project: Passive AMD Treatment

Thrasher Project Manager: Chad Biller

Client Contact:

Guardians of the West Fork

Mr. John Eleyette

830 Benoni Avenue | Fairmont, WV 26554

304-627-1019

PROJECT EXPERIENCE



This Morgantown, WV project involved three main sites which includes dangerous highwalls with heights between 20 and 70 feet, AMD water impoundments on highwall benches, exposed refuse on Booths Creek stream bank, open and collapsed portals, and existing non-functioning wet mine seal.

The scope of work included regrading the highwall bench and adjoining spoil piles to reclaim the highwalls, installing new or replacing the existing wet/modified mine seals for the portals producing AMD, and installing bate gates in the open portals. Additionally, Thrasher installed underdrains or seep collectors to eliminate ponding areas and construct conveyances to safely transport stormwater and mine water in and around the site. An Army Core of Engineers permit was applied for stream bank restoration/repair of Booths Creek and a temporary construction access across the stream. The project site covered a total area of 24.5 acres and reclamation included \pm 113,000 cubic yards of earthwork.

WVDEP AML Owl Creek Highwall #2

Location: Monongalia County, WV

Type of Project: Highwall

Thrasher Project Manager: RJ Hovatter

Client Contact:

Mr. Troy Schell, Northern Design Administrator
101 Cambridge Place | Bridgeport, WV 26330
304-842-1900

PROJECT EXPERIENCE



WVDEP AML Canyon Refuse

Location: Monongalia County, WV

Type of Project: Refuse and Dump

Thrasher Project Manager: Chad Biller

Client Contact:

Darren Bennett

101 Cambridge Place | Bridgeport, WV 26330

304-842-1900

The Canyon Refuse and Dump project was a site Thrasher worked on in Morgantown, WV. This project included a large scope, from mobilizing equipment to re-vegetating disturbed areas. To accomplish everything within the scope of this project, Thrasher prepared the site (including clearing and grubbing), constructed and installed support areas, and maintained access roads. Additionally, the team constructed and installed drainage control items to convey stormwater safely off-site through channels, culverts, and outlet protection. Thrasher also constructed and installed wet or modified mine seals, re-graded the refuse sites, backfilled highwalls, and ensured sediment control compliance with the approved NPDES permit.

This project included ~76,500 cubic yards of earthwork, ~3,300 linear feet, and 8 mine seals.

PROJECT EXPERIENCE



WVDEP AML Ridgeway Landslide

Location: Harrison County, WV

Type of Project: AML Emergency Landslide

Thrasher Project Manager: RJ Hovatter

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 bidding out both the soil nail wall and earthwork construction for the project. The project consisted of a soil nail wall that is approximately 36 feet tall and 6,300 cubic yards of earthwork.

PROJECT EXPERIENCE

WVDEP AML Dans Branch Landslide

Location: Mingo County, WV

Type of Project: AML Emergency Landslide

Thrasher Project Manager: Chad Biller

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 EXPERIENCE



West Ridge Multi-Use Development

Location: Monongalia County, WV

Type of Project: Full Service Project

Thrasher Project Manager: Richard Hovatter

Client Contact:

Mr. Aaron Humberson, Director of Engineering

310 Lawless Road, Suite 130

Morgantown, WV 26501

304-212-3355

The WestRidge Development is a 1,000-acre site that has been designed for a variety of land uses, including retail space, office buildings, industrial space, and trails. The Thrasher Group has worked side-by-side with the owner through each step of the project thus far, from planning and permitting to materials testing and inspection.

An important component of this process has been addressing the remains of an old strip and deep mine throughout the site. Thrasher's team made the judgement calls on the remediation of these materials. These methods consisted of total overexcavation of the seams to mine grout

stabilization. Thrasher helped assist the client in cost-benefit analyses addressing the coal issues with the most cost-effective way for remediation on a site-to-site basis. Thrasher has also worked with NGE Consultants to determine how to handle pyritic material in the building foundation zones.

Since 2015, Thrasher has also provided QA/QC on materials testing and construction inspection for WestRidge Development. Thrasher has been responsible for asphalt testing, concrete testing, soil testing, aggregate testing, rebar inspection, welding and steel inspection and more. This has been a massive undertaking for the Thrasher team, with more than 10 million cubic yards of earthwork moved to date with over 8 miles of roadways, half of which are 4 lane divided roadway, and 13 miles of sidewalk for pedestrians.

Thrasher's Testing/Inspection Included:

- » Aggregate Testing
- » Asphalt Testing
- » Compaction Testing
- » Concrete Testing
- » Rebar Inspection
- » Soil Testing
- » Welding and Steel Inspection

PROJECT EXPERIENCE



White Oaks Business Park Turnkey Master Plan

Location: Harrison County, WV

Type of Project: Full Service Project

Thrasher Project Manager: Chad Riley

Client Contact:

Mr. Woody Thrasher

P.O. Box 940 | Bridgeport, WV 26330

304-669-8664

At the Thrasher Group, our team is determined to provide the utmost quality of services for each project. We provided a number of these services for the White Oaks Business Park, including master planning, utility engineering, environmental mitigation, materials testing, and construction management.

Our Construction Project Managers (CPM) are responsible for overseeing a project from the initial planning stages to its successful completion. Throughout the duration of the project, CPMs have a responsibility to meet the client's requirements to achieve an efficient and fiscally viable project. CPMs

at Thrasher are experienced in Design, Planning, Budget Analysis, Quality Control Management, Permitting and Building Codes. Most importantly, our CPMs coordinate/communicate effectively with employees, contractors, and clients.

The Environmental Division was also involved in this project. We performed wetland mitigation for three different areas in the park. Each site was a little bit different based on the specifics of each one. Some of the work involved replanting of different vegetation, shrubs, and trees in the area. Another dealt with the re-grading of stream banks.

Coal Strip

The White Oaks Business Park is constructed on the remains of a previous coal strip bench. Therefore, a large portion of the development encountered coal during excavation of the pads. Thrasher has been able to work with local coal buyers during the different phases of construction to sale the coal being removed as part of the development. The revenue from these coal sales was then able to be used to offset a portion of the development cost



Project Approach

GOALS AND OBJECTIVES

A critical step in meeting your goals is first ensuring we understand them. Thrasher's team has thoroughly reviewed the Expression of Interest request and is confident in our ability to deliver the highest-quality solutions to your problems. We are capable of meeting each goal/objective you have outlined and feel strongly that you will be satisfied with the outcomes you receive.

Our team is prepared to complete all of the following services:

- > Perform Site and Geotechnical Investigations
- > Design temporary and permanent access or accesses for construction and future maintenance
- > Design to stabilize landslides
- > Design multiple portal seals and regrades
- > Design to mitigate AMD drainage, including possible horizontal borings
- > Design reclamation of exposed coal refuse and mine spoil
- > Design of drainage conveyances, including drainage channels, underdrains, and/or other controls to safely convey water off-site
- > Design to demolish / dismantle and remove concrete silo
- > Design to demolish and waste structures and derelict equipment
- > Condition and revegetate all disturbed areas
- > Construction quality assurance and quality control (QA/QC)
- > Provide resident project representative/inspector
- > Prepare daily construction activity logs summarizing activities
- > Provide engineering support and services throughout construction
- > Provide Engineers certification report

We understand your goals for the Brownton Refuse #2 project and will handle them in the following manner:

► GOAL/OBJECTIVE 2.1

The Thrasher Group will conduct an environmental assessment (EA) meeting the requirement of WV-DEP-AML and OSMRE. This EA will at a minimum include correspondence and consideration to the US Fish and Wildlife Agency, the Army Corps of Engineers, Division of Natural Resources, State Historic Preservation Office, and other agencies and necessary to meet the NEPA and IIJA environmental requirements. Thrasher will obtain any permissions necessary to complete the project.

Thrasher will also develop plans and specifications in a manner that will comply with the IIJA requirements. This may include, but is not limited to, American Iron and Steel requirements, Davis Bacon Act wage requirements, disadvantaged business requirements and other necessary considerations.

► GOAL/OBJECTIVE 2.2

The Thrasher Group will conduct a thorough record search to determine the legal ownership of any properties associated with the project. This may include tax record searches, deed research, property corner locations, legal title searches, owner interviews, and other necessary research. Thrasher will assist with any necessary right-of-way or easement preparation, deed preparation, or other document preparation necessary to substantiate or acquire legal rights needed to complete the project.

► GOAL/OBJECTIVE 2.3

The Thrasher Group will work with WV-DEP-AML to develop a cost-effective approach to solve the issues related to these sites. Thrasher will develop plans and specifications for each project that will allow a contractor to efficiently complete the work. We will provide detailed plans to reclaim mine portals, drainage controls and systems, slope stabilization, coal refuse reclamation, stream restoration, subsidence repair, storm water and erosion and sediment control, regrade and revegetation, and all other conditions encountered on the project sites. Finally, we will provide specifications that will require contractors to meet the standard of WV-DEP-AML. Standard WV-DEP-AML specifications and other materials will be incorporated into the documents.

► GOAL/OBJECTIVE 2.4

The Thrasher Group will prepare and assist with the acquisition of all permits required to complete these projects. This may include, but is not limited to, any NPDES stormwater construction permits, Army Corps of Engineers Nationwide or Individual Permits, or other necessary permits.

We will develop plans and specification outlining the contractor requirements during

construction and maintenance periods. These specifications will ensure that the permits are well maintained and meet the requirements for release. Thrasher will assist with the preparation of any documents needed to maintain or release the permits.

► GOAL/OBJECTIVE 2.5

The Thrasher Group will provide an experience resident project representative (RPR), and will conduct regularly scheduled Project Management visits to the site. The RPR will develop daily field activity reports that can be provided in real time or at preferred intervals. Project Managers and/or Professional Engineers will conduct site visits on a regular basis and at critical construction points to ensure quality construction and adherence to the plans and specifications.

Thrasher's in-house Materials Testing Division will provide necessary field representatives to ensure quality assurance and control specifications are being adhered to. Our lab personnel can conduct most all necessary material testing including but not limited to soil compaction testing, moisture content testing, concrete and/or grout testing, and many others.

Richard Hovatter will be the Project Manager for this series. He will be supported by a team of qualified staff, who will perform the tasks necessary to complete the survey, geotechnical engineering, design, permitting, and bid documents as required.

Richard will communicate with the AML team to determine the preferred timing for each project and will work with you to establish the most realistic and efficient schedule for all projects.

The general project approach we will follow for your project is outlined below:

Step 1 | Site Visit

Our assembled team of engineers and technicians will conduct a site visit. This group will evaluate the project conditions and identify and document potential problem areas. Thrasher will call the necessary utilities prior to being on-site to help identify any known utility locations. We will coordinate with your team and any identified key stakeholders to take all the facts into consideration during this process.

Step 2 | Conceptual Design and Report

Thrasher will prepare a conceptual design for the project at hand. Where applicable, we will also provide design alternatives for consideration. We will then prepare a written report of the conceptual designs and outline any issues.

Step 3 | Construction Documents

Our team will provide design solutions and construction documents to the appropriate personnel for the project. These plans will be carried forward to final design based upon the conceptual design report. In addition, with Thrasher's experience working

on various similar projects, a construction safety and phasing plan will be developed and reviewed with the owner to ensure a safe project during construction.

We will complete the final design documents based upon comments received and conclusions throughout the design review process. Our field evaluations and design approach will specifically address these issues in the construction documents.

Step 4 | Cost Estimates

Our project team will provide itemized cost estimates at the following stages: conceptual design, preliminary design, and final design.

Step 5 | Bid Process

We will assist the Owner and stakeholders in preparation of the bid documents and will attend pre-bid meetings and assist in issuance of addenda.

Step 6 | Construction Administration

The project team will review project submittals, attend project meetings, and provide inspection of the construction being completed. The project team will also provide final punch list inspection at project completion.

Thrasher will also develop a program to keep your team abreast of potential construction issues.

Step 7 | Project Close Out

Upon completion of the project, the Thrasher team will provide final as-built drawings in both CAD and PDF format to the Owner. All permits will be closed/terminated at the completion of construction.



Required Forms

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.

(Name, Title) Richard Hovatter, PE

(Printed Name and Title) Richard Hovatter, PE

(Address) 600 White Oaks Blvd. | Bridgeport, WV 26330

(Phone Number) / (Fax Number) 304-624-4108 | 304-624-7831

(email address) rhovatter@thethrashergroup.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract 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/Contract 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.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.



(Printed Name, Title)

Chadwick Biller, PE - Principal-in-Charge 06/23/2022

(Printed Name and Title of Authorized Representative) (Date)

304-624-4108 | 304-624-7831

(Phone Number) (Fax Number)

cbiller@thethrashergroup.com

(Email Address)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.:CEOI 0313 DEP2200000017

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

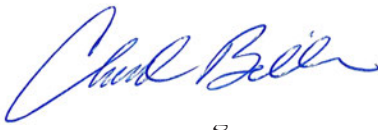
Addendum Numbers Received:

(Check the box next to each addendum received)

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

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

The Thrasher Group, Inc. _____



06/23/2022 _____

Date

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

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment "A"

PROJECT NAME		DATE (DAY, MONTH, YEAR) June 22, 2022	FEIN 55-0633596-6
1. FIRM NAME The Thrasher Group, Inc.		2. HOME OFFICE BUSINESS ADDRESS 600 White Oaks Blvd. Bridgeport, WV 26330	3. FORMER FIRM NAME Thrasher Engineering
4. HOME OFFICE TELEPHONE 304-624-4108	5. ESTABLISHED (YEAR) 1983	6. TYPE OWNERSHIP Individual <input checked="" type="checkbox"/> Corporation Partnership <input type="checkbox"/> Joint-Venture	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE
600 White Okas Boulevard. Bridgeport, WV 26330 / 304-624-4108 / Chad Biller / 11

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Woody Thrasher - President and CEO Lauren Lint - CFO Clay Riley - COO of Design Services Clayton White - COO of Field Services	8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS CHAD RILEY, PE - SHAREHOLDER (304)-326-6120 MATTHEW BREAKEY, AIA - SHAREHOLDER (304) 641-3741 WM. RANDY WATSON - SHAREHOLDER (304) 326-6129 MICHAEL TYLER, PE - SHAREHOLDER (304) 343-7601 CHADWICK BILLER, P.E. - SHAREHOLDER (304) 326-6127 DAN FERRELL, P.E. - SHAREHOLDER (304) 288-7755 CRAIG BAKER, CEFP - SHAREHOLDER (304) 669-3022 ROBERT MILNE, P.E. - SHAREHOLDER (304) 326-6141 JONATHAN CARPENTER, P.E- SHAREHOLDER (304) 343-7601 KYLEA RADCLIFF, P.E. - SHAREHOLDER (304) 476-8033 STEVEN HAMIT, P.E. - SHAREHOLDER (304) 620-4790 JESSE ALDEN, P.E. - SHAREHOLDER (304) 476-8488 JASON BOYD, P.E. - SHAREHOLDER (304) 677-5142 JOE LOWTHER, P.S. - SHAREHOLDER (304) 677-5314 HEIDI HANDLEY, CF APMP - SHAREHOLDER (304) 612-6002 DOUG SMITH, PE, MBA - SHAREHOLDER (304) 326-6372 AMANDA CHEUVRONI, AIA - SHAREHOLDER (304) 444-0360
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9. PERSONNEL BY DISCIPLINE

14 ADMINISTRATIVE	— ECOLOGISTS	3 LANDSCAPE ARCHITECTS	2 STRUCTURAL ENGINEERS
8 ARCHITECTS	— ECONOMISTS	1 MECHANICAL ENGINEERS	100 SURVEYORS
— BIOLOGIST	2 ELECTRICAL ENGINEERS	— MINING ENGINEERS	3 TRAFFIC ENGINEERS
20 CADD OPERATORS	10 ENVIRONMENTALISTS	3 PHOTOGRAMMETRISTS	48 OTHER
— CHEMICAL ENGINEERS	1 ESTIMATORS	2 PLANNERS: URBAN/REGIONAL	
44 CIVIL ENGINEERS	3 GEOLOGISTS	44 SANITARY ENGINEERS	
8 CONSTRUCTION INSPECTORS	— HISTORIANS	— SOILS ENGINEERS	
3 DESIGNERS	1 HYDROLOGISTS	— SPECIFICATION	
— DRAFTSMEN		3 Writers	316 TOTAL PERSONNEL

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 39

***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 Qualification Questionnaire".

NAME AND ADDRESS: NGE Consulting 650 MacCorkle Ave. St. Albans, WV 25177 304-201-5180	SPECIALTY:	WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No

12. A.	<p>Is your firm's personnel experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?</p> <p><input checked="" type="checkbox"/> YES Description and Number of Projects: Thrasher performs engineering design services to the WV DEP for drainage, portal seals, highwall and other remediation projects, as well as water line and water treatment plant projects related to AML. Numerous projects involving land remediation, storm water drainage, slip repair, mass grading in relations to site development and highway projects are engineered by the firm on a regular basis.</p>
	NO
B.	<p>Is your firm experienced in Soil Analysis?</p> <p><input checked="" type="checkbox"/> YES Description and Number of Projects: Thrasher maintains an AASHTO Certified materials testing lab at both the Bridgeport and Beckley offices. Soil analysis experience is specifically in gradation and classification.</p>
	NO
C.	<p>Is your firm experienced in hydrology and hydraulics?</p> <p><input checked="" type="checkbox"/> 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</p>
	NO
D.	<p>Does your firm produce its own Aerial Photography and Develop Contour Mapping?</p> <p><input checked="" type="checkbox"/> 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 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 within the last year.</p>
	NO
E.	<p>Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)</p> <p><input checked="" type="checkbox"/> 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 AML. 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.</p>
	NO
F.	<p>Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?</p> <p><input checked="" type="checkbox"/> YES Description and Number of Projects: Thrasher has been awarded and has successfully completed numerous reclamation projects for the WV DEP related specifically to acid mine drainage and abatement, as well as multiple passive treatment systems designed to watershed protection groups. The Charleston, WV branch of our company designed and award-winning water treatment plant for Martinka mines in Marion County, West Virginia to treat mine drainage.</p>
	NO

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Biller, Chadwick D. - Principal	18	23	23

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. Chad is responsible for WV DEP AML projects 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 knowledge of the 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)

Professional Engineer, 1998, West Virginia # [REDACTED]
Professional Engineer, 1999, Pennsylvania # [REDACTED]
Professional Engineer, 2000, Ohio # [REDACTED]

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
HOVATTER, RICHARD (RJ) - Project Manager	15	15	15

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

N/A

REGISTRATION (Type, Year, State)

Professional Engineer, 2009, West Virginia # [REDACTED]
Professional Engineer, 2010, Pennsylvania # [REDACTED]

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

NAME & TITLE (Last, First, Middle Int.) Pitman, John - Project Engineer	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 3	YEARS OF AML RELATED DESIGN EXPERIENCE: 3	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0

Brief Explanation of Responsibilities
John Pitman serves as a grading and utility engineer. He is a site/civil designer with tasks including the development of existing conditions, demolition, erosion and sediment control, site, grading, and utility plans along with creating details for site specific elements.

EDUCATION (Degree, Year, Specialization)
Bachelor of Science, 1999, Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS N/A	REGISTRATION (Type, Year, State) Registered Engineer in Training (EI) State of West Virginia (# [REDACTED])
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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.) Wolfe, Danny J. - Project Designer	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 3	YEARS OF AML RELATED DESIGN EXPERIENCE: 3	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0

Brief Explanation of Responsibilities
Danny Wolfe is a Computer Aided Site Designer\Manager for the energy market at Thrasher. He provides layout and design based on the needs and budget of the clients. Danny has over two decades of experience designing and coordinating residential, commercial, and energy development projects to ensure project goals are accomplished within the client's time frame and funding parameters.

EDUCATION (Degree, Year, Specialization)
N/A

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS N/A	REGISTRATION (Type, Year, State) N/A
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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:
Thrasher, Austin - Construction Services Director	3	3	0

Brief Explanation of Responsibilities
Austin focuses on managing Thrasher's Construction Services members out in the field. He also spends a portion of his time working directly with contractors to solve issues in the field. His project oversight and experience give project owners the confidence that their work is getting completed on time and on budget.

EDUCATION (Degree, Year, Specialization)
Bachelor of Science, 2018, Civil Engineering Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
Harrison County United Way Harrison County Chamber of Commerce	Engineering Intern: 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:
Woodall, Mike - Right-of-Way Acquisition	0	0	0

Brief Explanation of Responsibilities
Mike has spent a large portion of his career working in Thrasher's laboratories on soil, concrete and aggregate testing. Mike will serve as the Field Services Manager, acting as the primary technical resource for our field testing technicians and inspectors.

EDUCATION (Degree, Year, Specialization)
N/A

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
N/A	N/A

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

NAME & TITLE (Last, First, Middle Int.) Panasik, Gina - Environmental Scientist	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 4	YEARS OF AML RELATED DESIGN EXPERIENCE: 4	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0

Brief Explanation of Responsibilities

Gina's environmental work has included wetlands delineation and mitigation; NEPA Environmental Assessments and Categorical Exclusions; FERC Resource Reports; Phase I ESAs; soil sampling; groundwater sampling; Federal, state, and local environmental permitting; and rare, threatened, and endangered species surveys for bats and plants. Gina also has experience working with several Federal agencies on funding for projects including the FAA, FHWA, OSMRE, and the USDA RD and USDA RUS.

EDUCATION (Degree, Year, Specialization)

Master of Science, 1996, Marine Biology
Bachelor of Arts, 2003, Biology - Specialty in Marine Biology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Society of Wetland Scientists Women's Energy Network	REGISTRATION (Type, Year, State) PA DCNR Wild Plant Management Permit, Pennsylvania
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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.) Rawe, Aaron - Surveyor	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 3	YEARS OF AML RELATED DESIGN EXPERIENCE: 3	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 3

Brief Explanation of Responsibilities

Aaron's duties cover various aspects of surveying, including routing, as-builts, preliminary, construction stakeout and boundary of construction management. He also meets with project stakeholders, area residents, local utility companies, and the project engineers to ensure that schedules are being met and to regularly update all parties on construction status. Additionally, Aaron is progressively responsible for the coordination of field crews, date collection, site layouts, ALTA surveys, subsidence and topographic surveys.

EDUCATION (Degree, Year, Specialization)

Associates of Science, 2011, Surveying Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS West Virginia Society of Professional Surveyors	REGISTRATION (Type, Year, State) Professional Surveyor, West Virginia, Kentucky
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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.) Fry, Craig - Aerial Mapping	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 5	YEARS OF AML RELATED DESIGN EXPERIENCE: 5	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 5
Brief Explanation of Responsibilities Craig Fry has 23 years of experience in geospatial technologies. He is an expert in photogrammetry, UAV mapping, and remote sensing. Craig has experience with the following UAS Platforms: DJI M600 Pro, Pulse Aerospace Vapor 55 and DJI Phantom.			
EDUCATION (Degree, Year, Specialization) Bachelor of Science, 1994, Geography			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS N/A	REGISTRATION (Type, Year, State) FAA License Number: [REDACTED] 2017		

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 35 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.

Thrasher 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 asbuilts, 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
- CIVIL 3D
- CARLSON AND MICROSTATION V8 SOFTWARE
- 35 CAD STATIONS
- 10 LARGE FORMAT (SIZE E) PLOTTERS AND
- 5 LARGE FORMAT PLOTTER / SCANNERS
- 7 3D SUB-SURFACE UTILITY LOCATORS

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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
<p>OWL CREEK HIGHWALL #2 ABANDONED MINE LANDS AND RECLAMATION NEAR MORGANTOWN WV MONONGALIA COUNTY</p>	<p>ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304</p>	<p>PROVIDE ENGINEERING SERVICES TO MITIGATE MINING RELATED PROBLEMS ASSOCIATED WITH ABANDONED MINE LANDS (PERMITTING, DESIGN, CONSTRUCTIONMONITORING)</p>	<p>\$1,600,000</p>	<p>90%</p>
<p>KEMPTON REFUSE REHABILITATION TUCKER COUNTY, WV NEAR THOMAS</p>	<p>ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304</p>		<p>TBD</p>	<p>0%</p>
<p>HATFIELD-MCCOY REGIONAL RECREATION AUTHORITY TWIN HOLLOW CAMPGROUND AML PILOT LOGAN COUNTY, WV</p>	<p>MR. JEFFREY LUSK, EXECUTIVE DIRECTOR 179 RITA MALL ROAD MAN, WV 2563 304-692-6782</p>		<p>TBD</p>	<p>30%</p>

TOTAL NUMBER OF PROJECTS: 3 of our current projects listed

TOTAL ESTIMATED CONSTRUCTION COSTS: \$ N/A

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

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)
STOWE (PRINCE) LANDSLIDE EMERGENCY AML LOGAN COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 TH STREET, SE CHARLESTON, WV 25304	\$220,000.00	2016	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	2016	YES
SWAMP RUN #1 PASSIVE AMD TREATMENT SYSTEM UPSHUR COUNTY, WV	BUCKHANNON RIVER WATERSHED ASSOCIATION 112 FAYETTE STREET, BUCKHANNON, WV 26201	\$440,000.00	2016	NO
NUTTER RUN LANDSLIDE EMERGENCY AML HARRISON COUNTY, WV	WV DEP, NORTHERN EMERGENCY 101 CAMBRIDGE PLACE BRIDGEPORT, WV 26330 304-842-1900	\$10,000,000	2017	YES
RIDGEWAY DRIVE LANDSLIDE EMERGENCY AML HARRISON COUNTY, WV	WV DEP, NORTHERN EMERGENCY 101 CAMBRIDGE PLACE BRIDGEPORT, WV 26330 304-842-1900	\$20,000,000	2018	YES
ED GOWER HIGHWALL AML GRANT UPSHUR COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 TH STREET, SE CHARLESTON, WV 25304	\$11,080,655	2019	YES
HATFIELD-MCCOY REGIONAL RECREATION AUTHORITY ASHLAND RESORT AML PILOT MCDOWELL COUNTY, WV	MR. JEFFREY LUSK, EXECUTIVE DIRECTOR 179 RITA MALL ROAD MAN, WV 2563 304-692-6782	MASTER PLANNING, RECLAMATION WORK, UTILITY EXTENSIONS, BRIDGE DESIGN, ROAD IMPROVEMENTS, ENVIRONMENTAL ASSESSMENTS, PERMITTING	\$1,700,000	YES
ISAAC CREEK LANDSLIDE ABANDONED MINE LANDS AND RECLAMATION NEAR DOLA WV HARRISON COUNTY	ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57 TH ST SE CHARLESTON WV 25304	DEVELOP CONSTRUCTION AND EROSION AND SEDIMENT PLANS ALONG WITH TECHNICAL SPECIFICATIONS TO STABILIZE THE LANDSLIDE AND RE-ESTABLISH THE ALIGNMENT OF ISAAC CREEK ROAD (CR 16-1)	\$890,000	YES
HATFIELD-MCCOY REGIONAL RECREATION AUTHORITY IVY BRANCH AML PILOT PROJECT BOONE COUNTY, WV	MR. JEFFREY LUSK, EXECUTIVE DIRECTOR 179 RITA MALL ROAD MAN, WV 2563 304-692-6782	ENVIRONMENTAL PERMITTING AND ASSESSMENTS, NEPA DOCUMENTATION, ENGINEERING DESIGN, BIDDING, CONSTRUCTION ADMINISTRATION	\$350,000	YES

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

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

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

20. The _____ of facts.

Signatur  _____ Title: Principal-in-Charge _____ Date: 06/23/2022 _____

Printed Name: Chadwick Biller

BOND FORFEITURE and RELATED PROJECT EXPERIENCE MATRIX

PROJECT	Exp. Basis C-Corp P-Personal *	Additional info provided in Section (s) **	PROJECT EXPERIENCE REQUIREMENTS														Primary staff participation/capacity *** M-Management P-Professional	
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/shaft closure	Hydrologic/Hydraulic design/ Eval.	Remining Evaluation	Mine / refuse fire abatement	Subsidence investigation/ mitigation	Hazardous waste disposal	Project specifications	Water quality evaluation /mitigation replacement	Construction inspection / management	Water treatment	Equipment /structure removal	Stream restoration	Geotechnical/stability	Chadwick D. Biller
Anglins Run Portals	C				X	X					X						M	
Roaring Creek	C		X	X		X				X	X						M	
Shinns Run Portals	P			X		X				X								M/P
Squire's Creek Portals	C	Project Experience	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	Project Experience	X		X	X				X					X		M	P
Landgraaf Refuse	C		X			X				X							M	P
Canyon Refuse & Dump	C	Project Experience	X		X	X				X				X			M	P
Stowe (Prince) Landslide	C					X				X						X	M	P
Lamberts Run Site 7	C		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	Project Experience				X				X						X	M	P
Ed Gower Highwall #2	C		X		X	X				X							M	P
Martinka Mine	C		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.

ABANDONED MINE LANDS (AML) CONTRACTOR INFORMATION FORM

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

Part A: General Information

Business Name: The Thrasher Group, Inc.
 Tax ID #: 55-0633596
 Address: 600 White Oaks Blvd.
 City, State, & Zip: Bridgeport, WV 26330
 Phone Number: 304-624-4108
 Email Address: criley@thethrashergroup.com

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

If you plan to certify the existing AVS information or submit updates under Part C, you must include an OFT. Instructions for downloading an OFT from the AVS can be found at:

<https://www.osmre.gov/resources/forms/OMB1029-0119instructions.pdf>

If you require assistance you may contact the AVS Office by phone at: 800-643-9748, or by email at:

avshelp@osmre.gov.

Part C: Certifying and updating information in the AVS

Select one of the options, follow the instructions for the selected option, sign, and date below.

I, Chad Riley, have express authority to certify that:
 (Print Name)

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

06/23/2022
Date


Signature

Vice President
Title



AVS OFT Report - 6/16/2022 3:19:30 PM

All OFT's where the selected entity is listed as an entity or related entity

Entity Selected (260544) The Thrasher Group Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(260544) The Thrasher Group Inc	Manager	Senior Project Manager	(██████) Richard G Hovatter		8/29/2011	
(260544) The Thrasher Group Inc	Shareholder		(██████) Kenneth P Moran	10%	5/27/1991	
(260544) The Thrasher Group Inc	President		(██████) Chad Riley		1/1/2020	
(260544) The Thrasher Group Inc	Shareholder		(██████) Chad Riley	3%	6/22/1997	
(260544) The Thrasher Group Inc	Secretary		(██████) Clay Riley		1/1/2020	
(260544) The Thrasher Group Inc	Shareholder		(██████) Clay Riley	3%	1/31/2008	
(260544) The Thrasher Group Inc	Vice President		(██████) Ronald Stanley		1/1/2020	
(260544) The Thrasher Group Inc	Treasurer		(██████) Ronald Stanley		2/4/2009	
(260544) The Thrasher Group Inc	President		(██████) Kenneth P Moran		5/27/1991	1/1/2020
(260544) The Thrasher Group Inc	Vice President		(██████) Chad Riley		6/22/1997	1/1/2020
(260544) The Thrasher Group Inc	Secretary		(██████) Ronald Stanley		2/4/2009	1/1/2020
(260544) The Thrasher Group Inc	Shareholder		(██████) Ronald Stanley	5%	2/4/2009	6/4/2021



THRASHER