

# THRASHER

ARCHITECTURE | ENGINEERING | FIELD SERVICES

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WV PURCHASING  
DIVISION



## WEST VIRGINIA DIVISION OF NATURAL RESOURCES

A/E Services for South Charleston Boat Ramp Improvements

Submitted by:  
The Thrasher Group, Inc.  
April 30, 2019

April 30, 2019

Attn: Ms. Brittany Ingraham  
2019 Washington Street East  
Charleston, WV 25305

*RE: WVDNR A/E Services for South Charleston Boat Ramp Improvements*

Dear Ms. Ingraham and Selection Committee Members:

The Kanawha River is a great hub of activity in the South Charleston and Greater Charleston areas. Residents and visitors alike are able to enjoy the Wild and Wonderful side of West Virginia through a number of activities on the River, many of which involve boating. To encourage those activities, however, improved access is needed at the South Charleston Boat Ramp. The Thrasher Group can provide those improvements.

Thrasher has provided similar services for the West Virginia Division of Natural Resources and several other clients to ensure safe and convenient boating access. We have designed our team to provide the experience and capacity to handle every aspect of your project, from its overall management to the environmental permitting required through the project duration. Our team will keep you apprised of what's happening each step of the way, with thorough communication during all phases of the project.

Our team is also very familiar with the City of South Charleston and its surrounding areas. With an office nearby, we understand the landscape, challenges, and community involved in this project. We have also provided work on a number of projects in the area, including several with a utility, site, or environmental focus.

We believe that The Thrasher Group has the skills, knowledge, and experience to provide the WVDNR with the full scope of services needed. Our in-house team will allow for a one-stop shop to complete the work needed to improve the South Charleston Boat Ramp in an effective, timely manner.

Thank you for taking the time to consider our materials. We look forward to continuing our partnerships in your community!

Sincerely,  
THE THRASHER GROUP, INC.



Caitlyn Preast, EI  
Project Manager



Robert Milne, PE  
Principal

# 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.

Robert Milne  
(Name, Title)  
Robert Milne, PE, Principal  
600 White Oaks Blvd. | Bridgeport, WV 26330  
(Address)  
304-624-4108 | 304-624-7831  
(Phone Number) / (Fax Number)  
rmilne@thethrashergroup.com  
(email address)

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

The Thrasher Group

(Company)

Robert Milne  
(Authorized Signature) (Representative Name, Title)

Robert Milne, PE, Principal  
(Printed Name and Title of Authorized Representative)

April 25, 2019  
(Date)

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

Revised 01/24/2019

# REQUIRED FORMS

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

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

Name of Authorized Agent: Robert Milne, PE Address: \_\_\_\_\_

Contract Number: DNR 1900000009 Contract Description: EOI - South Charleston Boat Ramp

Governmental agency awarding contract: West Virginia Division of Natural Resources

Check here if this is a Supplemental Disclosure

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

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

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

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

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

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

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

Signature: Ret R. Milne Date Signed: April 25, 2019

### Notary Verification

State of WV, County of Harrison

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

Taken, sworn to and subscribed before me this 25th day of April, 2019.

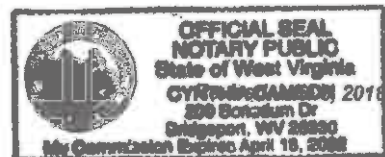
Cynthia Carney  
Notary Public's Signature

### To be completed by State Agency:

Date Received by State Agency: \_\_\_\_\_

Date submitted to Ethics Commission: \_\_\_\_\_

Governmental agency submitting Disclosure: \_\_\_\_\_



STATE OF WEST VIRGINIA  
Purchasing Division

PURCHASING AFFIDAVIT

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

**ALL CONTRACTS:** Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

**EXCEPTION:** The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

**DEFINITIONS:**

**"Debt"** means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

**"Employer default"** means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

**"Related party"** means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: The Thrasher Group

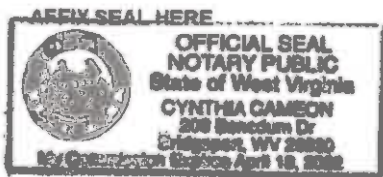
Authorized Signature: [Signature] Date: April 25, 2019

State of WV

County of Harrison, to-wit:

Taken, subscribed, and sworn to before me this 25th day of April, 2019.

My Commission expires April 18, 2022.



NOTARY PUBLIC [Signature]  
Purchasing Affidavit (revised 01/18/2018)

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: CEOI DNR19\*09**

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

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

**Addendum Numbers Received:**  
(Check the box next to each addendum received)

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

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

The Thrasher Group

Company

*DeAR mlc*

Authorized Signature

4/29/19

Date

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



## MISSION

To improve the communities where we live and work by driving infrastructure development.

## CORE PRINCIPLES

Quality  
Safety  
Adaptability  
Integrity



# 9

### OFFICES

in six states:

West Virginia  
Virginia  
Pennsylvania  
Ohio  
Maryland  
Kentucky



# 580

### EMPLOYEES

**35** Licensed Professional Engineers  
**20** Licensed Professional Surveyors  
**6** Licensed Professional Architects  
**4** Licensed Professional Landscape Architects



# 35

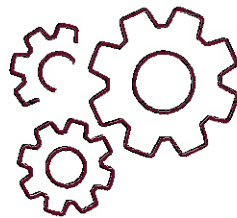
### YEARS

of delivering successful projects

### Main Point of Contact

Caitlyn Preast, EI  
Project Manager  
cpreast@thethrashergroup.com  
Cell: 304-918-4280  
Office: 304-343-7601

*Thrasher has earned its reputation by delivering projects on time and on budget by actively managing every phase of project development and delivery. By providing our clients with integrated services, specifically tailored for their project, we streamline the planning, engineering, and completion of projects.*



## SERVICES

- > Engineering
- > Environmental
- > Survey
- > Materials Testing and Inspection
- > Construction Management
- > Architecture

Thrasher has an experienced team that can provide customized services for the West Virginia Division of Natural Resources. Our Site Division is comprised of engineers who have the experience to provide the WVDNR with designs for the needed improvements for the existing boat ramp as well as a new boat ramp.

To support these efforts, Thrasher will also have in-house environmental, survey, and utility crews on hand. Our environmental team is well versed in the permitting that will be required to proceed with this project. The Survey Division will be able to provide all necessary data our engineers will need for the design process. We will also coordinate with our Utility Division, who is familiar with the City of South Charleston, to ensure local utilities are not disturbed during construction.





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.

We understand your goals for the South Charleston Boat Ramp project and will handle them in the following manner:

**GOAL/OBJECTIVE 1**

The Thrasher Group will review existing plans and evaluate the potential for boating access at the desired location along the Kanawha River. We will work to determine a plan that can be implemented realistically and will cause minimal disruption to the area. We will communicate effectively with the WVDNR through all phases of the process to ensure the project is on track and all parties are informed of progress.

**GOAL/OBJECTIVE 2**

We are confident that Thrasher can provide all of the necessary services to design both improvements to the current boat ramp and an entirely new ramp. We will keep all designs consistent with the Division of Natural Resource’s needs and objectives while adhering to all applicable codes and laws, as well as the project budget.

**GOAL/OBJECTIVE 3**

Construction Administration is always part of the Thrasher package. This is a piece that we feel is important to offer for every project, and we consistently bid more projects than any other firm in the state. Thrasher has the competent professionals your team needs to ensure your project is constructed correctly and functions as designed.

Thrasher's goal is always to complete projects on-time and within budget for our clients, and we have a long history of achieving that goal. Throughout this Expression of Interest, you will see projects that illustrate these qualities and represent successful outcomes.

While achieving this isn't always an easy task, our tried-and-true project approach is what consistently gets us to that end result.

Thrasher will establish a design kick-off meeting with the WVDNR and key members of our project team to review the project and clearly define the Scope of Services. Following contract approval, our team will take the following steps to ensure completion:

### **Step 1 - Site Visit**

The assembled team of engineers and technicians will conduct a site visit. This group will evaluate the existing conditions and identify and document potential problem areas. We will use existing plans and documents to understand the project more thoroughly from the beginning. We will coordinate with your team and any identified key stakeholders to take all the facts into consideration during this process. This will include surveying and consulting with local utilities to ensure their infrastructure and service are not disrupted.



### **Step 2 - Conceptual Design and Report**

Thrasher will prepare a conceptual design for the needed services at the South Charleston Boat Ramp. We will also provide design alternatives for consideration by the WVDNR. 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. Thrasher proposes to prepare two submissions - preliminary design and final design. The preliminary design submission will be used to review the proposed project with the WVDNR. After review and comment, we will complete the final design documents based upon comments received and conclusions reached at the preliminary design review. The final design will incorporate the WVDNR's requests and provide a clear solution to the upgrades necessary at the South Charleston Boat Ramp. 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 WVDNR in preparation of the bid documents and will attend pre-bid meetings and assist with issuance of any 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 the WVDNR abreast of potential construction issues. Our project team will prepare design repairs with the adjacent property owners in mind. We plan to address any issues that may arise through clear and concise construction notes, details, and specifications to ensure the safety of the workers and environment.

### **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 WVDNR and any appropriate personnel as needed.



Communication throughout any project is a primary key to success. To that end, Thrasher will begin communication with the WVDNR immediately upon notification of award and will maintain consistent lines of communication for the duration of the project. Thrasher's Project Manager, Caitlyn Preast, plans to provide, at a minimum, bi-monthly updates regarding the project to ensure the WVDNR and other stakeholders have a clear understanding of the project status.

The two main components of the project approach will be design and construction. Each will have its own plan for communication.

## Communication During Design

Prior to the initiation of design services, Caitlyn will discuss preferred methods of communication with the WVDNR's point of contact. Updates during the design phase can occur in numerous ways:

- Weekly status updates via email
- Weekly conference calls
- Monthly progress meetings.

No matter what method is preferred, our project teams are well versed in keeping our clients abreast of project status. We can customize your project's communication plans to best fit your teams' wants and needs.

## Communication During Construction

Before construction begins, Caitlyn will again meet with the WVDNR team to determine preferred communication tools for this phase of the project. Open, consistent communication will be paramount to keep the project on-time and within budget.

Additionally, Thrasher will conduct monthly progress meetings with the contractor, the WVDNR, and key project stakeholders throughout the duration of the project. Meeting minutes will be distributed to all attendees and any other agents identified by the WVDNR. Action items will be documented within the meeting minutes.

Throughout construction, Thrasher will have representatives on site for project representation as well as material testing. Any time a Thrasher employee is on site during construction, a field report will be prepared. Field reports will be reviewed by the engineering team and distributed to the WVDNR's construction representative on a weekly basis.

## **Scheduling:**

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

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

## **Budgeting:**

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

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



# KEY PERSONNEL



## WEST VIRGINIA DIVISION OF NATURAL RESOURCES

Rob Milne, PE  
Principal

Caitlyn Preast, EI  
Project Manager

Clayton Lilly  
Environmental Task Manager

Cassandra McGeehan, EI  
Staff Engineer

Corey Smith, PE  
Utility Coordinator

Jeremiah Goudy  
Environmental Scientist



NGE Consulting  
Geotechnical Sub-consultant

Survey Services

Construction Services

Environmental Services

# ROB MILNE, PE

Principal



Robert Milne, PE has over 25 years of experience working with both public and private clientele throughout the Mid-Atlantic region to develop millions of dollars' worth of commercial, industrial, residential, and mixed-use sites.

Rob's in-depth understanding of site layout, design, permitting, and funding have enabled him to complete several complex projects that have boosted economic development and delivered safe, sustainable building sites. Rob remains involved with every facet of the projects he manages - overseeing design standards, staff assignments, project schedules, and client communication.

## Education

Master of Science,  
Civil Engineering  
West Virginia University

Bachelor of Science,  
Civil Engineering  
West Virginia University

## Registrations

Professional Engineer:

- > West Virginia
- > Pennsylvania
- > Virginia
- > Ohio
- > Maryland

## Affiliations

- > Leadership Monongalia County, WV
- > Foundations of Leadership/ National Leadership Institute
- > USACE-Access Control Point Design Training Course
- > ODOT Non-complex Roadway Design prequalification
- > ODOT Complex Roadway Design prequalification
- > ODOT Bridge Design Level 1.1/1.2 prequalification

## Experience

### WV Department of Natural Resources Boat Ramp Design at Palatine Park

Role: Project Manager  
> Marion County, WV

### WV Department of Natural Resources Elk River Boating Access

Role: Project Manager  
> Kanawha County, WV

### West Virginia University

#### Beckley Parking Lot

Role: Project Manager  
> Raleigh County, WV

### West Virginia University

#### Creative Arts Center Parking Lot

Role: Principal  
> Monongalia County, WV

Principal

## Your **ACTIVE PE** renewal fee has been received...

Your ACTIVE PE renewal fee has been received. Your pocket card indicating you are entitled to practice engineering in West Virginia until the noted expiration date may be detached and used unless invalidated as a result of Board audit of your renewal form or formal disciplinary action.

**IMPORTANT REMINDERS:**

1. Please include your WV ACTIVE PE license number on any correspondence to this office.
2. To use this license as a pocket card, please cut along the dotted line and laminate if desired.
3. You are required to immediately notify the Board, in writing, of the following: loss or theft of license or seal, any name change, any address change, or any employment change.

**West Virginia State Board of Registration  
for Professional Engineers**

300 Capitol Street, Suite 910  
Charleston, West Virginia 25301  
304-558-3554 Phone  
800-324-6170 Toll Free  
[www.wvpebd.org](http://www.wvpebd.org)

**THIS IS ONE FORM OF YOUR RENEWAL RECEIPT**

**PLEASE SAVE THIS FOR YOUR RECORDS**

Date of Renewal: December 31, 2018  
Amount Paid: \$70.00



**West Virginia State Board of Registration  
for Professional Engineers**

**ROBERT R. MILNE  
WV PE #014177**

This is to certify that the above named PROFESSIONAL ENGINEER has met the requirements of the law, is duly registered and is entitled to practice engineering in the State of West Virginia.

**EXPIRES December 31, 2020**

**ROBERT R. MILNE**





Project Manager



### Education

Bachelor of Science,  
Civil Engineering  
West Virginia University  
Institute of Technology

### Registrations

Engineering Intern:  
> West Virginia

### Affiliations

> Leadership Logan County,  
WV  
> American Society of Civil  
Engineers

Caitlyn Preast, EI is a 2013 West Virginia University Institute of Technology graduate with a Bachelor of Science degree in Civil Engineering. While specializing in site development, she has also been involved in utility systems and architectural projects. She joined Thrasher with practical experience as a professional engineering intern in the Facility Asset Management Department of Walt Disney Parks and Resorts. With Thrasher, Caitlyn serves as a project engineer and has developed specific expertise supporting the development and implementation of source water protection plans, capital improvement plans and water and sewer system improvements.

In her role as a project manager, Caitlyn's attention to detail for submittal reviews makes her a key member of any team. Her skills with AutoCAD Civil 3D to assist site development grading, utility layouts and designs, and erosion and sediment control measures provide value to any project, as well as her proficiency in construction administration and project scheduling.

Caitlyn has a natural ability to communicate effectively with clients. Her enthusiasm for positively affecting communities has helped advance her clients' projects and gain support amongst key stakeholders.

### Experience

#### WV Department of Natural Resources Elk River Boating Access

Role: Site Engineer  
> Kanawha County, WV

#### WVU Beckley Parking Lot

Role: Site Engineer  
> Raleigh County, WV

#### City of Beckley New Police Station

Role: Site Engineer  
> Raleigh County, WV

#### City of Beckley Fire Department

Role: Site Engineer  
> Raleigh County, WV

#### Logan County DOH Headquarters

Role: Project Engineer  
> Logan County, WV

#### Charleston Astorg Auto Dealership Renovation

Role: Site Engineer  
> Kanawha County, WV

# CLAYTON LILLY

Environmental Task Manager



## Education

Master of Science,  
Forestry  
West Virginia University

Bachelor of Arts,  
English  
West Virginia University

## Certifications

- > Approved Freshwater Mussel Surveyor- West Virginia
- > PADI Master Diver Certification
- > Qualified Preparer of Stormwater Pollution Prevention Plans
- > Stormwater Management for Oil and Gas Construction Activities

## Trainings

- > WV Freshwater Mussel Identification Course
- > OH Freshwater Mussel Identification Course
- > The Swamp School: 40-hour Basic Wetland Delineation
- > Ohio Qualitative Habitat Evaluation Index (QHEI)
- > Headwater Habitat Evaluation Index (HHEI) Training Course (Midwest Biodiversity Institute)

Clayton Lilly is an Environmental Project Manager with over 12 years of combined experience in environmental/outdoor education, research, and environmental permitting. As part of his graduate research he conducted studies on streamflow generation in high elevation headwater catchments utilizing stable isotopes. As an environmental consultant, he has been involved at all levels of oil and gas related environmental work, including stream and wetland delineation, stormwater pollution prevention plan development and inspection, bat habitat studies and conservation plans, freshwater mussel surveys, and hydrologic measures for water management plans in sensitive aquatic environments.

Currently, Clayton leads environmental permitting teams ensuring project compliance with state, federal, and local regulations, including USACE Section 404/401 (Clean Water Act), USFWS Section 7 (Endangered Species Act), Section 106 (National Historic Preservation Act). He brings an attention to detail to the projects he oversees, with a focus on developing comprehensive and efficient permitting strategies.

## Experience

### WVDNR Kanawha River Mussel Bed Monitoring

Role: Mussel Surveyor  
> Kanawha County, WV

### Kanawha River Impact Assessments – Union Carbide Corporation

Role: Mussel Surveyor  
> Kanawha County, WV

### West Fork Dam Removal and Freshwater Mussel Salvage

Role: Mussel Surveyor  
> Harrison County, WV

### Freshwater Mussel Surveys and Relocations (50+ projects)

Role: Mussel Surveyor, Dive Safety Officer  
> Various Counties WV, OH, PA, and TN

### Environmental Permitting/ Compliance

Role: Project Manager  
> WV and OH

Environmental Scientist



## Education

Bachelor of Science,  
Environmental Science  
(Minor in GIS)  
Alderson Broaddus University

## Certifications and Trainings

- > 40 Hour Hazardous Waste Operations and Emergency Response (HAZWOPER)
- > 10 Hour OSHA Construction Safety and Health
- > 8 Hour Safeland Safety Course

Jeremiah Goudy currently serves the Thrasher team as an Environmental Scientist. His work has included: stream and wetland delineations, report writing, environmental permitting, performing groundwater sampling, storm water runoff sampling, soil drilling and sampling, SWVM sampling (stream classification and benthic macroinvertebrate sampling/identification), and Phase I and Phase II Environmental Site Assessments.

Additionally, Jeremiah meets with state agencies and Owner representatives to determine potential aquatic and environmental impacts within project areas. Jeremiah uses a combination of his extensive field work and formal education to identify and mitigate potential environmental hazards.

Jeremiah obtained his minor in GIS. He assists the environmental division with mapping and data collection on many of the environmental projects.

## Experience

**WVDNR Elk River Permitting, Field Work, and Environmental Assessment**  
Role: Environmental Scientist  
> Kanawha County, WV

**Hazel Ruby McQuain Kayak Launch Permitting**  
Role: Environmental Scientist  
> Monongalia County, WV

**Hatfield-McCoy Trail Environmental Assessment**  
Role: Environmental Scientist  
> Logan County, WV

**Beech Bottom Phase II Environmental Site Assessment Sampling and Reporting**  
Role: Environmental Scientist  
> Brooke County, WV

# CASSANDRA MCGEEHAN, EI

Staff Engineer



## Education

Bachelor of Science,  
Civil Engineering  
Marshall University

## Registrations

Engineering Intern:  
> West Virginia

Cassandra McGeehan, EI is a 2018 Marshall University graduate with a Bachelor of Science degree in Engineering and a focus in Civil Engineering. Cassandra serves as a staff engineer and brings an impressive technical skill set to Thrasher's Site Division where she has helped with numerous infrastructure and stormwater projects.

Cassandra works directly with Thrasher's team of talented engineers to prepare and review preliminary engineering reports, asset management plans, and various funding applications. Her understanding of public utility infrastructure in the Mid-Atlantic Region has enabled her to work with an array of funding and regulatory agencies to deliver clients technically sound projects within stringent budgets.

As part of her duties, Cassandra spends much of her time providing design edits for the engineering staff and comparing desktop data to that collected in the field. Her skills with AutoCAD Civil 3D are a very valuable for site development projects.

## Experience

### WV Department of Natural Resources Elk River Boating Access

Role: Staff Engineer  
> Kanawha County, WV

### Seneca Village Pison Site Development

Role: Staff Engineer  
> Monongalia County, WV

### Coalfields Expressway

Role: Staff Engineer  
> Greenbrier County, WV

### Trinity Village Assisted Living Facility

Role: Staff Engineer  
> Orange County, VA

# COREY SMITH, PE

Utility Coordinator



Corey Smith is a Project Engineer and Project Manager for The Thrasher Group's Utility Division. He has experience in a host of areas, including construction monitoring and management, materials testing, and pipeline inspection. His areas of expertise, however, lie in wastewater, water, and stormwater systems.

Having worked both in the office and the field, Corey has a clear understanding of all project aspects, from inception to completion. This knowledge and experience make Corey an excellent project manager, taking each piece of a project into consideration.

Additionally, Corey will bring a wealth of knowledge on the City of South Charleston. He has provided engineering work for a number of projects in the area and is familiar with the City's sanitary and stormwater systems.

## Education

Bachelor of Science,  
Civil Engineering  
West Virginia University

## Registrations

Professional Engineer:  
> West Virginia

## Affiliations

- > SafeLand Training
- > MSHA Training - Class 32  
Safety Personnel Card  
Holder
- > GO Training (Chevron Safety  
Program)

## Experience

### South Charleston Sanitary Board Inflow and Infiltration Improvement Project

Role: Project Engineer  
> Kanawha County, WV

### South Charleston Sanitary Board Davis Creek Sewer Crossing Replacement

Role: Project Engineer  
> Kanawha County, WV

### South Charleston Wastewater Treatment Plant Electrical Upgrades

Role: Project Engineer  
> Kanawha County, WV

### South Charleston Separation of Storm Drains from the Sanitary Sewer

Role: Project Engineer  
> Kanawha County, WV



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come Greeting  
"Know Ye" That The State Board of Registration for Professional Engineers  
of the State of West Virginia, reposing special confidence in  
the Intelligence, Integrity and Discretion of

Corey A. Smith

DOES IN PURSUANCE OF AUTHORITY VESTED IN IT  
by law hereby certify that he having submitted  
satisfactory evidence of his ability and experience is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number [REDACTED]

"To Hold" and use such title in the practice of his profession,  
subject to the conditions prescribed by law.



Given under the hand of the  
Seal of the Board at the Capital in the  
City of Charleston,  
This 2nd day of January  
in the year of our Lord 2019  
and of the State  
the One Hundred Fifty-Fifth

Members of the Board

[Signature] Blayne S. Smith  
[Signature] [Signature] [Signature]

## Geotechnical Sub-consultant

NGE was founded in the fall of 2002 by Amy Veltri and John Nottingham, a management team with a combined 40 years of industry experience. 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.

Since its inception, NGE has hired and retained the best and brightest talent in the industry. Their staff has relevant experience and qualifications to complete complex environmental and geotechnical projects. 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, they are proud of their roots and the progressive environment they have created for their dedicated employees.

### Renowned Geotechnical Work

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 they strive to achieve at NGE. They help differentiate their company from their competitors and serve to distinguish their employees as the "best of the best."

#### Experience with Thrasher

##### WV Department of Natural Resources Elk River Boating Access

- > Kanawha County, WV

##### Doddridge Athletic Complex

- > Doddridge County, WV

##### Boy Scouts of America Welcome Center

- > Fayette County, WV

##### City of Beckley Police Department

- > Raleigh County, WV

##### America's Best Block Facility

- > Mineral County, WV

##### Jefferson County Airport

- > Jefferson County, WV

##### Huntington Tri-State Airport

- > Wayne County, WV

##### Bridgeport CVB Farmers Market

- > Harrison County, WV



## Palatine Park Master Plan and Improvements

Client Contact:

Mr. Kris Cinalli

200 Jackson Street | Fairmont, WV 26554

304-367-5425

Thrasher has had the pleasure of working with both the Marion County EDA and the West Virginia Division of Natural Resources on rehabilitation of an existing boat ramp and the addition of a new 3-lane boat ramp at Palatine Park in Fairmont, WV. For the EDA, the first phase of this project involved Thrasher developing a comprehensive master plan to help guide the County Commission to understand their long-term goals for the park.

After the master plan was complete, the Thrasher team began the design of a new splash park. The splash park opened in the Spring of 2014 and has quickly become a huge attraction for the community.

Most recently, Thrasher has been working with the Marion County EDA and the West Virginia Division of Natural Resources on existing and new boat ramp projects at Palatine Park. The revitalization of the existing single lane boat ramp, parking area, and access at the western end of the park was designed and constructed in Spring 2016. This was completed as part of Phase III of Palatine Park's extension with the Marion County EDA. The new boat ramp facility project with the WVDNR began construction in early fall 2016 and was completed in the summer of 2017. This project features a new 3-lane boat ramp, parking, and is fully ADA accessible.



## Town of Williamsport Boat Ramp Revitalization

Client Contact:

Mayor James G. McCleaf II

2 North Conococheague Street

Williamsport, MD 21795

301-223-7711

River Bottom Park, along the Potomac River in Williamsport, Maryland, was a strategic location for access to the river by boating and canoe enthusiasts but had fallen into disrepair. Williamsport had received numerous complaints over the years regarding the hazardous conditions at the ramp which forced boaters to back their boat trailers beyond the concrete ramp and into the stream bed.

Over the years, the erosion caused by the ramp's deterioration created the potential to damage boat trailers. Consequently, many boaters began bypassing the boat ramp. Working with the Town, Thrasher developed plans to revitalize the existing boat ramp, making it a convenient and easily accessible gateway to the Potomac River. Revitalization included various improvements to the ramp, such as an extension to the existing ramp to provide adequate water depth for boat launching.

Another part of the revitalization included the addition of a floating dock to provide an area for launched boats to tie-off and boaters to safely load and unload craft. The plan also expanded the parking and vehicular access to the area as well as created a stream buffer between the parking area and the water's edge to promote re-vegetation and to minimize unnecessary erosion of the stream banks. A turnabout was created to help boaters more easily launch and retrieve their craft from the Potomac River. These improvements have affected approximately 5,000 area boaters and has increased the usage of the area.





## Elk River Boat Ramp

Client Contact:

Mr. Zack Brown, Assistant Chief - Operations Wildlife Resources Section, WVDNR

324 Fourth Ave | South Charleston, WV 25303  
304-558-2771

The Thrasher Group is currently working on the design and engineering of boat ramps for the Elk River. These ramps, designed to allow for effective boat access, are spaced out along five sites: Big Chimney, Blue Creek, Coonskin Park, and Upper and Lower Clendenin.

To date, our team has completed site visits and preliminary and final design for all five of the boat ramps. Upon approval of the final designs, Thrasher will see the ramps through the construction phase, providing construction administration for the process.

In addition to the design and engineering aspects, Thrasher's Environmental Division completed the environmental permitting for this project. This included typical environmental permitting and stream impacts, mussel surveys, archaeological surveys, cultural work, and Army Corps permitting.

The Elk River, like the Kanawha River, is a Group 4 High Quality Stream where Threatened and Endangered mussels and other species are expected.



## Experience in the Community

The Thrasher Group has partnered with the City of South Charleston on a number of projects over the years. We have primarily completed public utility projects with the City. This work has allowed us to gain an in-depth understanding of the area, its layout, and its challenges. It has also given us thorough knowledge on the location of utilities that may impact the WVDNR's boat ramp project.

Some of the work Thrasher has completed for South Charleston includes:

- > South Charleston Sanitary Board Davis Creek Sewer Crossing Replacement
- > South Charleston Sanitary Board Inflow and Infiltration Project
- > South Charleston Wastewater Treatment Plant Electrical Upgrades
- > South Charleston Separation of Storm Drains from Sanitary Sewer

Additionally, the Thrasher team has worked on a number of pipeline projects in the area. Additionally, we have completed environmental permitting along the Kanawha and Elk Rivers.



### **Marion County Commission**

Mr. Randy Elliott, President  
200 Jackson Street | Fairmont, WV 26554  
C: 304-577-8064 | O: 304-367-5425

### **City of South Charleston**

Mr. Steve DeBarr, PE, City Engineer  
1 Rock Crest Dr Box 8336  
South Charleston, WV 25309  
304-768-4140

### **West Virginia University**

Mr. John Thompson, Associate Director  
of Facilities Design and Construction  
[john.thompson@mail.wvu.edu](mailto:john.thompson@mail.wvu.edu)  
304-293-3625

# THRASHER

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