



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

# State of West Virginia Purchase Order

Order Date: 11-08-2024

CORRECT ORDER NUMBER MUST APPEAR  
ON ALL PACKAGES, INVOICES, AND  
SHIPPING PAPERS. QUESTIONS  
CONCERNING THIS ORDER SHOULD BE  
DIRECTED TO THE DEPARTMENT  
CONTACT.

Order Number:	CPO 0313 9171 DEP2500000010 1	Procurement Folder:	1258505
Document Name:	EOI - 2023 AML Contract S4	Reason for Modification:	
Document Description:	EOI - 2023 AML Contract S4		
Procurement Type:	Central Purchase Order		
Buyer Name:	Joseph E Hager III		
Telephone:	(304) 558-2306		
Email:	joseph.e.hageriii@wv.gov		
Shipping Method:	Best Way	Effective Start Date:	2024-11-15
Free on Board:	FOB Dest, Freight Prepaid	Effective End Date:	

VENDOR	DEPARTMENT CONTACT																				
Vendor Customer Code: 000000204787 THE THRASHER GROUP INC 600 WHITE OAKS BLVD  BRIDGEPORT WV 26330 US Vendor Contact Phone: 304-343-7601 Extension: Discount Details: <table><thead><tr><th></th><th>Discount Allowed</th><th>Discount Percentage</th><th>Discount Days</th></tr></thead><tbody><tr><td>#1</td><td>No</td><td>0.0000</td><td>0</td></tr><tr><td>#2</td><td>Not Entered</td><td></td><td></td></tr><tr><td>#3</td><td>Not Entered</td><td></td><td></td></tr><tr><td>#4</td><td>Not Entered</td><td></td><td></td></tr></tbody></table>		Discount Allowed	Discount Percentage	Discount Days	#1	No	0.0000	0	#2	Not Entered			#3	Not Entered			#4	Not Entered			Requestor Name: Jessica S Chambers Requestor Phone: (304) 414-1140 Requestor Email: jessica.s.chambers@wv.gov  <b>2025</b> FILE LOCATION _____
	Discount Allowed	Discount Percentage	Discount Days																		
#1	No	0.0000	0																		
#2	Not Entered																				
#3	Not Entered																				
#4	Not Entered																				

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

CR 11-12-24

Purchasing Division's File Copy

Total Order Amount: \$3,582,647.50

PURCHASING DIVISION AUTHORIZATION DATE: 11/8/24 ELECTRONIC SIGNATURE ON FILE	ATTORNEY GENERAL APPROVAL AS TO FORM DATE: 11/14/2024 ELECTRONIC SIGNATURE ON FILE	ENCUMBRANCE CERTIFICATION DATE: 11-14-24 ELECTRONIC SIGNATURE ON FILE
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**Extended Description:**

The vendor, The Thrasher Group Inc., agrees to enter into this contract with the agency, The West Virginia Department of Environmental Protection, for Design and Engineering Services for the 2023 AML Contract S4 per the specifications, terms and conditions, and the vendors submitted cost proposal dated 5/8/2024, all incorporated herein by reference and made a part hereof.

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
1	81100000	0.00000		0.000000	266536.00
Service From	Service To	Manufacturer	Model No		

**Commodity Line Description:** Professional Svcs - Branchland (Blankenship) Portal Drainage

**Extended Description:**

Professional Svcs - Branchland (Blankenship) Portal Drainage

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
2	81100000	0.00000		0.000000	307581.50
Service From	Service To	Manufacturer	Model No		

**Commodity Line Description:** Professional Svcs - Branchland (Crum) Drainage

**Extended Description:**

Professional Svcs - Branchland (Crum) Drainage

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
3	81100000	0.00000		0.000000	111942.00
Service From	Service To	Manufacturer	Model No		

**Commodity Line Description:** Professional Svcs - Branchland Portals Rt. 10

**Extended Description:**

Professional Svcs - Branchland Portals Rt. 10

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
4	81100000	0.00000		0.000000	143063.00
Service From	Service To	Manufacturer	Model No		

**Commodity Line Description:** Professional Svcs - Branchland Portal

**Extended Description:**

Professional Svcs - Branchland Portal

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
5	81100000	0.00000		0.000000	145982.00
Service From	Service To	Manufacturer	Model No		

**Commodity Line Description:** Professional Svcs - Middle Fork (Adkins) Portals

**Extended Description:**

Professional Svcs - Middle Fork (Adkins) Portals

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
6	81100000	0.00000			
Service From	Service To	Manufacturer		0.000000	642266.00
				Model No	
Commodity Line Description: Professional Svcs - Cadbury Lane Drainage					

Extended Description:  
Professional Svcs - Cadbury Lane Drainage

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
7	81100000	0.00000			
Service From	Service To	Manufacturer		0.000000	596485.00
				Model No	
Commodity Line Description: Professional Svcs - Belcher Hollow Auger Holes					

Extended Description:  
Professional Svcs - Belcher Hollow Auger Holes

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
8	81100000	0.00000			
Service From	Service To	Manufacturer		0.000000	292103.00
				Model No	
Commodity Line Description: Professional Svcs - Guyan River Refuse					

Extended Description:  
Professional Svcs - Guyan River Refuse

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
9	81100000	0.00000			
Service From	Service To	Manufacturer		0.000000	156924.00
				Model No	
Commodity Line Description: Professional Svcs - Branchland Hubball A					

Extended Description:  
Professional Svcs - Branchland Hubball A

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
10	81100000	0.00000			
Service From	Service To	Manufacturer		0.000000	448932.00
				Model No	
Commodity Line Description: Professional Svcs - Harmonds Creek Portals Phase II					

Extended Description:  
Professional Svcs - Harmonds Creek Portals Phase II

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
11	81100000	0.00000			
Service From	Service To	Manufacturer		0.000000	287268.00
				Model No	
Commodity Line Description: Professional Svcs - W. Columbia "B" Phase II					

Extended Description:  
Professional Svcs - W. Columbia "B" Phase II

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
12	81100000	0.00000		0.000000	183565.00
Service From		Service To		Manufacturer	
				Model No	
Contract Code: Lenham (Workman) Portals					

**Commodity Line Description:** Professional Svcs - Lanham (Workman) Portals

**Extended Description:**  
Professional Svcs - Lanham (Workman) Portals



## GENERAL TERMS AND CONDITIONS:

- 1. CONTRACTUAL AGREEMENT:** Issuance of an Award Document signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance by the State of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid, or on the Contract if the Contract is not the result of a bid solicitation, signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.
- 2. DEFINITIONS:** As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.
  - 2.1. "Agency" or "Agencies"** means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.
  - 2.2. "Bid" or "Proposal"** means the vendors submitted response to this solicitation.
  - 2.3. "Contract"** means the binding agreement that is entered into between the State and the Vendor to provide the goods or services requested in the Solicitation.
  - 2.4. "Director"** means the Director of the West Virginia Department of Administration, Purchasing Division.
  - 2.5. "Purchasing Division"** means the West Virginia Department of Administration, Purchasing Division.
  - 2.6. "Award Document"** means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the contract holder.
  - 2.7. "Solicitation"** means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.
  - 2.8. "State"** means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.
  - 2.9. "Vendor" or "Vendors"** means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

**3. CONTRACT TERM; RENEWAL; EXTENSION:** The term of this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below:

☐ **Term Contract**

**Initial Contract Term:** The Initial Contract Term will be for a period of \_\_\_\_\_ date listed on the first page of this Contract, identified as the State of West Virginia contract cover page containing the signatures of the Purchasing Division, Attorney General, and Encumbrance clerk (or another page identified as \_\_\_\_\_), and the Initial Contract Term ends on the effective end date also shown on the first page of this Contract.

**Renewal Term:** This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal should be delivered to the Agency and then submitted to the Purchasing Division thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Unless otherwise specified below, renewal of this Contract is limited to \_\_\_\_\_ successive one (1) year periods or multiple renewal periods of less than one year, provided that the multiple renewal periods do not exceed the total number of months available in all renewal years combined. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

☐ **Alternate Renewal Term** – This contract may be renewed for \_\_\_\_\_ successive \_\_\_\_\_ year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

**Delivery Order Limitations:** In the event that this contract permits delivery orders, a delivery order may only be issued during the time this Contract is in effect. Any delivery order issued within one year of the expiration of this Contract shall be effective for one year from the date the delivery order is issued. No delivery order may be extended beyond one year after this Contract has expired.

☐ **Fixed Period Contract:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed within \_\_\_\_\_ days.

☐ **Fixed Period Contract with Renewals:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and part of the Contract more fully described in the attached specifications must be completed within \_\_\_\_\_ days. Upon completion of the work covered by the preceding sentence, the vendor agrees that:

☐ the contract will continue for \_\_\_\_\_ years;

☐ the contract may be renewed for \_\_\_\_\_ successive \_\_\_\_\_ year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's Office (Attorney General approval is as to form only).

☐ **One-Time Purchase:** The term of this Contract shall run from the issuance of the Award Document until all of the goods contracted for have been delivered, but in no event will this Contract extend for more than one fiscal year.

☒ **Construction/Project Oversight:** This Contract becomes effective on the effective start date listed on the first page of this Contract, identified as the State of West Virginia contract cover page containing the signatures of the Purchasing Division, Attorney General, and Encumbrance clerk (or another page identified as \_\_\_\_\_), and continues until the project for which the vendor is providing oversight is complete.

☐ **Other:** Contract Term specified in \_\_\_\_\_

**4. AUTHORITY TO PROCEED:** Vendor is authorized to begin performance of this contract on the date of encumbrance listed on the front page of the Award Document unless either the box for "Fixed Period Contract" or "Fixed Period Contract with Renewals" has been checked in Section 3 above. If either "Fixed Period Contract" or "Fixed Period Contract with Renewals" has been checked, Vendor must not begin work until it receives a separate notice to proceed from the State. The notice to proceed will then be incorporated into the Contract via change order to memorialize the official date that work commenced.

**5. QUANTITIES:** The quantities required under this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below.

☐ **Open End Contract:** Quantities listed in this Solicitation/Award Document are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.

☐ **Service:** The scope of the service to be provided will be more clearly defined in the specifications included herewith.

☒ **Combined Service and Goods:** The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.

☐ **One-Time Purchase:** This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.

☐ **Construction:** This Contract is for construction activity more fully defined in the specifications.

**6. EMERGENCY PURCHASES:** The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute of breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One-Time Purchase contract.

**7. REQUIRED DOCUMENTS:** All of the items checked in this section must be provided to the Purchasing Division by the Vendor as specified:

☐ **LICENSE(S) / CERTIFICATIONS / PERMITS:** In addition to anything required under the Section of the General Terms and Conditions entitled Licensing, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits upon request and in a form acceptable to the State. The request may be prior to or after contract award at the State's sole discretion.

☐☐☐☐

The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications regardless of whether or not that requirement is listed above.

**8. INSURANCE:** The apparent successful Vendor shall furnish proof of the insurance identified by a checkmark below prior to Contract award. The insurance coverages identified below must be maintained throughout the life of this contract. Thirty (30) days prior to the expiration of the insurance policies, Vendor shall provide the Agency with proof that the insurance mandated herein has been continued. Vendor must also provide Agency with immediate notice of any changes in its insurance policies, including but not limited to, policy cancelation, policy reduction, or change in insurers. The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether that insurance requirement is listed in this section.

Vendor must maintain:

☒ **Commercial General Liability Insurance** in at least an amount of: \$1,000,0000.00 per occurrence.

☒ **Automobile Liability Insurance** in at least an amount of: \$1,000,0000.00 per occurrence.

☒ **Professional/Malpractice/Errors and Omission Insurance** in at least an amount of: \$1,000,0000.00 per occurrence. Notwithstanding the forgoing, Vendor's are not required to list the State as an additional insured for this type of policy.

☐ **Commercial Crime and Third Party Fidelity Insurance** in an amount of: \_\_\_\_\_ per occurrence.

☐ **Cyber Liability Insurance** in an amount of: \_\_\_\_\_ per occurrence.

☐ **Builders Risk Insurance** in an amount equal to 100% of the amount of the Contract.

☐ **Pollution Insurance** in an amount of: \_\_\_\_\_ per occurrence.

☐ **Aircraft Liability** in an amount of: \_\_\_\_\_ per occurrence.

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**9. WORKERS' COMPENSATION INSURANCE:** Vendor shall comply with laws relating to workers compensation, shall maintain workers' compensation insurance when required, and shall furnish proof of workers' compensation insurance upon request.

**10. VENUE:** All legal actions for damages brought by Vendor against the State shall be brought in the West Virginia Claims Commission. Other causes of action must be brought in the West Virginia court authorized by statute to exercise jurisdiction over it.

**11. LIQUIDATED DAMAGES:** This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other available remedy. Vendor shall pay liquidated damages in the amount specified below or as described in the specifications:

☐ \_\_\_\_\_ for \_\_\_\_\_.

☐ Liquidated Damages Contained in the Specifications.

☐ Liquidated Damages Are Not Included in this Contract.

**12. ACCEPTANCE:** Vendor's signature on its bid, or on the certification and signature page, constitutes an offer to the State that cannot be unilaterally withdrawn, signifies that the product or service proposed by vendor meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise indicated, and signifies acceptance of the terms and conditions contained in the Solicitation unless otherwise indicated.

**13. PRICING:** The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification. Notwithstanding the foregoing, Vendor must extend any publicly advertised sale price to the State and invoice at the lower of the contract price or the publicly advertised sale price.

**14. PAYMENT IN ARREARS:** Payments for goods/services will be made in arrears only upon receipt of a proper invoice, detailing the goods/services provided or receipt of the goods/services, whichever is later. Notwithstanding the foregoing, payments for software maintenance, licenses, or subscriptions may be paid annually in advance.

**15. PAYMENT METHODS:** Vendor must accept payment by electronic funds transfer and P-Card. (The State of West Virginia's Purchasing Card program, administered under contract by a banking institution, processes payment for goods and services through state designated credit cards.)

**16. TAXES:** The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.

**17. ADDITIONAL FEES:** Vendor is not permitted to charge additional fees or assess additional charges that were not either expressly provided for in the solicitation published by the State of West Virginia, included in the Contract, or included in the unit price or lump sum bid amount that Vendor is required by the solicitation to provide. Including such fees or charges as notes to the solicitation may result in rejection of vendor's bid. Requesting such fees or charges be paid after the contract has been awarded may result in cancellation of the contract.

**18. FUNDING:** This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available. If that occurs, the State may notify the Vendor that an alternative source of funding has been obtained and thereby avoid the automatic termination. Non-appropriation or non-funding shall not be considered an event of default.

**19. CANCELLATION:** The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may also cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-5.2.b.

**20. TIME:** Time is of the essence regarding all matters of time and performance in this Contract.

**21. APPLICABLE LAW:** This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code, or West Virginia Code of State Rules is void and of no effect.

**22. COMPLIANCE WITH LAWS:** Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendor acknowledges that it has reviewed, understands, and will comply with all applicable laws, regulations, and ordinances.

**SUBCONTRACTOR COMPLIANCE:** Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to comply with all applicable laws, regulations, and ordinances. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

**23. ARBITRATION:** Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.

**24. MODIFICATIONS:** This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any change to existing contracts that adds work or changes contract cost, and were not included in the original contract, must be approved by the Purchasing Division and the Attorney General's Office (as to form) prior to the implementation of the change or commencement of work affected by the change.

**25. WAIVER:** The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.

**26. SUBSEQUENT FORMS:** The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.

**27. ASSIGNMENT:** Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments.

**28. WARRANTY:** The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.

**29. STATE EMPLOYEES:** State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.

**30. PRIVACY, SECURITY, AND CONFIDENTIALITY:** The Vendor agrees that it will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the Agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the Agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/default.html>.



**31. YOUR SUBMISSION IS A PUBLIC DOCUMENT:** Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

**DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.**

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

**32. LICENSING:** In accordance with West Virginia Code of State Rules § 148-1-6.1.e, Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.

**SUBCONTRACTOR COMPLIANCE:** Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to be licensed, in good standing, and up-to-date on all state and local obligations as described in this section. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

**33. ANTITRUST:** In submitting a bid to, signing a contract with, or accepting a Award Document from any agency of the State of West Virginia, the Vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to Vendor.

**34. VENDOR NON-CONFLICT:** Neither Vendor nor its representatives are permitted to have any interest, nor shall they acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency.

Revised 11/1/2022

**35. VENDOR RELATIONSHIP:** The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limited to, Workers' Compensation and Social Security obligations, licensing fees, etc. and the filing of all necessary documents, forms, and returns pertinent to all of the foregoing.

Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

**36. INDEMNIFICATION:** The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.

**37. NO DEBT CERTIFICATION:** In accordance with West Virginia Code §§ 5A-3-10a and 5-22-1(i), the State is prohibited from awarding a contract to any bidder that owes a debt to the State or a political subdivision of the State. By submitting a bid, or entering into a contract with the State, Vendor is affirming 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, neither the Vendor nor any related party owe a debt as defined above, and neither the Vendor nor any related party are in employer default as defined in the statute cited above unless the debt or employer default is permitted under the statute.

**38. CONFLICT OF INTEREST:** Vendor, its officers or members or employees, shall not presently have or acquire an interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.

**39. REPORTS:** Vendor shall provide the Agency and/or the Purchasing Division with the following reports identified by a checked box below:

☒ Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.

☐ Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at [purchasing.division@wv.gov](mailto:purchasing.division@wv.gov).

**40. BACKGROUND CHECK:** In accordance with W. Va. Code § 15-2D-3, the State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check. Service providers should contact the West Virginia Division of Protective Services by phone at (304) 558-9911 for more information.

**41. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS:** Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:

- a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.
- b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more or such operations, from steel made by the open hearth, basic oxygen, electric furnace, Bessemer or other steel making process.
- c. The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:
  1. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars (\$2,500.00), whichever is greater. For the purposes of this section, the cost is the value of the steel product as delivered to the project; or
  2. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.

**42. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL:** In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars (\$50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a "substantial labor surplus area", as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products. This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

**43. INTERESTED PARTY SUPPLEMENTAL DISCLOSURE:** W. Va. Code § 6D-1-2 requires that for contracts with an actual or estimated value of at least \$1 million, the Vendor must submit to the Agency a disclosure of interested parties prior to beginning work under this Contract. Additionally, the Vendor must submit a supplemental disclosure of interested parties reflecting any new or differing interested parties to the contract, which were not included in the original pre-work interested party disclosure, within 30 days following the completion or termination of the contract. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. This requirement does not apply to publicly traded companies listed on a national or international stock exchange. A more detailed definition of interested parties can be obtained from the form referenced above.

**44. PROHIBITION AGAINST USED OR REFURBISHED:** Unless expressly permitted in the solicitation published by the State, Vendor must provide new, unused commodities, and is prohibited from supplying used or refurbished commodities, in fulfilling its responsibilities under this Contract.

**45. VOID CONTRACT CLAUSES:** This Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law.

**46. ISRAEL BOYCOTT:** Bidder understands and agrees that, pursuant to W. Va. Code § 5A-3-63, it is prohibited from engaging in a boycott of Israel during the term of this contract.

**ADDITIONAL TERMS AND CONDITIONS**  
**(Architectural and Engineering Contracts Only)**

**1. PLAN AND DRAWING DISTRIBUTION:** All plans and drawings must be completed and available for distribution at least five business days prior to a scheduled pre-bid meeting for the construction or other work related to the plans and drawings.

**2. PROJECT ADDENDA REQUIREMENTS:** The Architect/Engineer and/or Agency shall be required to abide by the following schedule in issuing construction project addenda. The Architect/Engineer shall prepare any addendum materials for which it is responsible, and a list of all vendors that have obtained drawings and specifications for the project. The Architect/Engineer shall then send a copy of the addendum materials and the list of vendors to the State Agency for which the contract is issued to allow the Agency to make any necessary modifications. The addendum and list shall then be forwarded to the Purchasing Division buyer by the Agency. The Purchasing Division buyer shall send the addendum to all interested vendors and, if necessary, extend the bid opening date. Any addendum should be received by the Purchasing Division at least fourteen (14) days prior to the bid opening date.

**3. PRE-BID MEETING RESPONSIBILITIES:** The Architect/Engineer shall be available to attend any pre-bid meeting for the construction or other work resulting from the plans, drawings, or specifications prepared by the Architect/Engineer.

**4. AIA DOCUMENTS:** All construction contracts that will be completed in conjunction with architectural services procured under Chapter 5G of the West Virginia Code will be governed by the attached AIA documents, as amended by the Supplementary Conditions for the State of West Virginia, in addition to the terms and conditions contained herein. The terms and conditions of this document shall prevail over anything contained in the AIA Documents or the Supplementary Conditions.

**5. GREEN BUILDINGS MINIMUM ENERGY STANDARDS:** In accordance with West Virginia Code § 22-29-4, all new building construction projects of public agencies that have not entered the schematic design phase prior to July 1, 2012, or any building construction project receiving state grant funds and appropriations, including public schools, that have not entered the schematic design phase prior to July 1, 2012, shall be designed and constructed complying with the ICC International Energy Conservation Code, adopted by the State Fire Commission, and the ANSI/ASHRAE/IESNA Standard 90.1-2007: Provided, That if any construction project has a commitment of federal funds to pay for a portion of such project, this provision shall only apply to the extent such standards are consistent with the federal standards.

**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.

(Printed Name and Title) Samuel Rich, PLA | Principal

(Address) 155 Blue Angel Lane | Beaver, WV 25813

(Phone Number) / (Fax Number) 304-431-7800 / 304-425-0445

(Email address) srich@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 this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; 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.

The Thrasher Group, Inc.

(Company)

*Samuel A Rich*

(Signature of Authorized Representative)

Samuel Rich

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

304-431-7800 / 304-425-0445

(Phone Number) (Fax Number)

srich@thethrashergroup.com

(Email Address)



ARCHITECTURE  
ENGINEERING  
FIELD SERVICES

## **COST PROPOSAL**

**THE THRASHER GROUP, INC.  
FOR ENGINEERING SERVICES**

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL  
PROTECTION  
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION**

**2023 AML S4 CONTRACT  
BRANCLAND PORTALS  
LINCOLN COUNTY, WEST VIRGINIA**

**WVDEP CEOI: 0313-DEP24\*04**

**MAY 8, 2024**

**THRASHER PROJECT #T30-11378**



**COST PROPOSAL  
2023 AML S4 CONTRACT  
BRANCHLAND PORTALS  
LINCOLN COUNTY, WEST VIRGINIA**

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**COST PROPOSAL  
2023 AML S4 CONTRACT  
BRANCHLAND PORTALS  
LINCOLN COUNTY, WEST VIRGINIA**

## **SECTION 1 PROPOSAL BASIS AND NEED FOR PROJECT**

### **PROPOSAL BASIS**

The Branchland Portals project is one of twelve (12) projects included in the 2023 AML S4 contract. This proposal is based on the notification received from the WVDEP initiating negotiations for the 2023 AML S4 contract dated November 13, 2023.

Work associated with this project and described in this proposal will be performed at our Beaver Office:

The Thrasher Group, Inc.  
155 Blue Angel Lane  
Beaver, WV 25813

### **PROJECT UNDERSTANDING**

The Branchland Portals project is located off 4 Mile Creek Road along Trace Fork in Branchland, Lincoln County. The general project consists of:

- Evaluation of three (3) mine portals and the potential three (3) portal closures.
- A temporary creek crossing.
- Approximately 200 LF of channel installation (riprap and/or grouted riprap) for mine water conveyance.
- Approximately 2,300 LF of access road construction.

This is a general overview of the project design. Should unforeseen conditions be discovered that requires additional design consideration, TTG will notify the WVDEP prior to proceeding with that design work.

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2023 AML S4 CONTRACT  
BRANCHLAND PORTALS  
LINCOLN COUNTY, WEST VIRGINIA**

## **SECTION 2 PROPOSED SCOPE OF SERVICES**

The following scope of work was prepared based on information collected from the site visit conducted in December 2023 and additional information included in the OSM-51, originally dated 7/8/87 and updated in December 2022.

The Thrasher Group and its subconsultants (collectively TTG) will perform the following tasks as described. Please note, all subconsultant(s) prices are included in the cost summary.

### **TASK I: NEPA and ESA**

#### **TASK I-A: AGENCY COORDINATION**

This task includes coordination with the WVDEP, Environmental Assessment (EA), Bat Habitat Assessment of portals and office work. Any work required for AMLNET is also included.

TTG will prepare and submit an EA to the Office of Surface Mining & Reclamation Enforcement (OSMRE) and address any comments or concerns from OSMRE.

TTG will conduct a Phase I bat assessment for all open portals associated with the project for possible bat habitat. Work associated with conducting bat habitat assessments must be completed by qualified biologists.

The services to be provided will include conducting the Bat Habitat Assessment of all open portals and writing the associated report for this project, as well as any necessary discussions with TTG personnel to incorporate avoidance, minimization, or mitigation actions necessary for the project.

### **TASK II: REALTY**

TTG will research legal ownership of properties by conducting a thorough search of deed records at the appropriate county courthouse that's local to the project and provide copies of the legal documentation to substantiate legal ownership findings for the properties located within the project area. Employees and/or subcontractors hired to perform realty related work will be familiar with the proper techniques and procedures in property research. TTG will contact the landowner(s) and acquire all Rights of Entry including Exploratory Rights of Entry (EROE), Construction Rights of Entry (CROE), and temporary and permanent ingress/egress rights for projects. Furthermore, TTG's Realty Agent will provide progress information on the WVDEP/AMLNET system as required. The Realty Agent will communicate with WVDEP's Real Estate Representative as to progress of landowner negotiations, landowner questions to be addressed, and status of landowner agreements. If a landowner requests to be an additional insurer, the landowners making the request will be added as an additional insurer. TTG's Realty Agent that conducted landowner negotiations and acquired the rights of entry will attend the pre-bid and pre-construction meetings to address any realty related issues. Consideration will be given to the fact that ownership can also change during the period between a pre-bid and pre-construction and

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**2023 AML S4 CONTRACT**  
**BRANCHLAND PORTALS**  
**LINCOLN COUNTY, WEST VIRGINIA**

would require new CROE agreement(s). CROE Realty packets will be updated to make sure that no property has changed ownership prior to the actual Pre- Construction meeting and if so, new agreements will be obtained. Pre-Construction photos of the site(s) will be taken and uploaded into AMLNET along with the EROE and CROE Realty packets. It is assumed that TTG's personnel will have access to AMLNET. If there is a dispute or question as to boundary lines, an attempt will be made to sign up both sides/owners in efforts to avoid a boundary survey. Boundary Surveys conducted by a WV licensed Land Surveyor or title opinions to be completed by an attorney in efforts to resolve boundary disputes and ownership will be discussed with DEP Engineers and Realty before taking any action.

**TASK II-A: EXPLORATORY RIGHT OF ENTRY (EROE)**

This task includes all work conducted during EROE negotiations as detailed above.

**TASK II-B: CONSTRUCTION RIGHT OF ENTRY (CROE)**

This task includes all work conducted during CROE negotiations as detailed above.

**TASK II-C: PRE-BID MEETING NOTICE**

TTG will notify all property owners of the upcoming pre-bid meeting. Realty agent or representative will attend pre-bid meeting.

**TASK II-D: PRE-CONSTRUCTION CONFERENCE NOTICE**

TTG will notify all property owners of the upcoming pre-construction meeting. Realty agent or representative will attend pre-construction conference.

**TASK III: DESIGN**

**TASK III-A: SITE RECONNAISSANCE AND INVESTIGATIONS**

This task includes the initial site visit and all work conducted in preparing this scope of services.

**TASK III-B: SURVEY AND MAPPING**

TTG will deploy a 2-man survey crew to the site to survey the project area. This survey will include,

- survey crew will set a minimum of three (3) control points at the project site.
- Start of access road and centerline of access road to portal locations.
- Each of the three (3) portal locations.
- Observed existing structures such as, but not limited to, utilities, creek crossing(s), and/or structures.
- Should property corners be observed during the survey activity, those corners will be incorporated into the survey as a data point.

**COST PROPOSAL  
2023 AML S4 CONTRACT  
BRANCHLAND PORTALS  
LINCOLN COUNTY, WEST VIRGINIA**

**TASK III-C: GEOTECHNICAL INVESTIGATION**

Geotechnical investigation will not be required for this project.

**TASK III-D: ANALYSIS AND DESIGN**

After the surveying is complete, TTG will develop a conceptual plan. A meeting will be held with WVDEP onsite to review the design. If the design approach is agreed upon, TTG will proceed to final engineering design and development of construction drawings.

**TASK III-E: PREPARATION OF PLANS, SPECIFICATIONS, AND ENGINEERS ESTIMATE**

TTG will develop the preliminary design package and incorporate the approved conceptual design. Deliverables will include engineering plans, specifications, and estimates. A detailed Engineer's Construction Cost Estimate (ECCE), Engineer's Construction Time Estimate (ECTE), and bid sheet will be developed. The preliminary design will be forwarded to the WVDEP for review and comments. After addressing these comments, TTG will submit the final design package and update the ECCE, ECTE, and bid sheet, if necessary.

This proposal includes a maximum of four (4) review sessions by the WVDEP. The reviews will occur at the following milestones: 30% design, 60% design, 80% design, and 100% design. Plans, design report, specifications, bid sheet, construction cost estimate, and construction time estimate will be submitted to the WVDEP electronically for each review milestone.

The follow is an anticipated project schedule based on the assumption of receiving a Purchase Order by July 1, 2023.

Branchland Portals	Estimated Date Range	
NEPA and ESA	7/15/2024	7/19/2024
Realty	7/4/2024	7/8/2024
Survey	7/9/2024	7/10/2024
Design	7/11/2024	7/25/2024
Pre-bid Meeting	9/23/2024	

This schedule does not include estimated dates for approved permits and/or time required to prepare and assign a pre-bid date for the project.

**TASK III-F: PERMITTING**

TTG will prepare and submit a Construction National Pollutant Discharge Elimination System Storm Water permit (NPDES). If necessary, TTG will address comments from the WVDEP associated with the application.

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**LINCOLN COUNTY, WEST VIRGINIA**

TTG anticipates a WVDOH MM-109 permit will be required as access to the project area will be off Four Mile Creek Road. TTG will prepare and submit the WVDOH MM-109 permit and, if necessary, will address comments from the WVDOH associated with the application.

TTG does not anticipate additional permits for the project will be required. Should unforeseen conditions be discovered that requires a permit, TTG will notify the WVDEP prior to proceeding with permit application preparation. TTG anticipates WVDEP will consult other agencies, if required.

**TASK III-G: PRE-BID CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the pre-bid meeting.

- a. Work with the WVDEP to establish a pre-bid date.
- b. Provide pre-bid documents such as plans, specifications, and sign in sheet.
- c. Attend and conduct the pre-bid meeting onsite.
- d. Assist WVDEP with addendums, as needed.

**TASK III-H: PRE-CONSTRUCTION CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the preconstruction meeting.

- a. Provide preconstruction documents such as plans, specifications, sign in sheet, and other required documents.
- b. Attend one (1) pre-construction conference onsite.

**TASK IV - CONSTRUCTION OVERSIGHT**

TTG will provide construction oversight for this project. This includes a Resident Project Representative (RPR) who will be on-site daily to observe construction activities. For this proposal, construction time is assumed to be eight (8) hours per day, five (5) days per week for eight (8) weeks. Mileage is assumed to be from Beaver, WV and a per diem of \$50.00. One site visit for the project manager/designer during construction to ensure the contractor is adhering to approved plans and specifications. TTG will conduct inspection reports and input the information into AMLNET. At the conclusion of construction, TTG will certify the project was built in accordance with the plans and specifications.

TTG will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

**COST PROPOSAL  
2023 AML S4 CONTRACT  
BRANCLAND PORTALS  
LINCOLN COUNTY, WEST VIRGINIA**

**TASK V - POST-CONSTRUCTION OVERSIGHT**

A TTG project manager/designer will review the as-built plans provided by the contractor following construction, the construction oversight documentation and provide an as-built certification that project was completed according to plans, and/or within allowable exceptions.

TTG will provide a Resident Project Representative to monitor/inspect and document site conditions post-construction to verify project aspects are stable, operating as per the plans, and established.

- TTG has included two (2) site visits for post-construction oversight in this proposal.
- Should additional site visits be required or requested, those additional site visits can be included through change order.

Task V includes one (1) site visit for the project manager during final inspection.

**SECTION 3 COST ESTIMATE**

TTG will complete this project on a time and materials basis not to exceed the estimated costs provided in the Cost Summary without prior WVDEP approval. TTG will only invoice for time and expenses incurred.

Please note that the per diem rates provided in the proposal are a projection based on the Federal Per Diem Rates for the current year and project location. The calculated per diem costs included in this proposal are based on the anticipated number of days that will be required for site visits prior to construction, onsite RPR during construction, and site visits post construction. Per diem rates will be used for required single day trips and days that will require lodging near the project site. The Per Diem rates are as follows:

- Per Diem (meal only; no lodging required) - \$50.00 per day.
- Per Diem w/ Lodging (meal & lodging) - \$175 per day.
- Mileage - \$0.70 per mile.

It is understood that TTG will ensure that all subcontractors are fully insured and have worker's compensation coverage. If you have any additional questions or need additional information, please let me know.

**COST PROPOSAL  
2023 AML S4 CONTRACT  
BRANCHLAND PORTALS  
LINCOLN COUNTY, WEST VIRGINIA**

**SECTION 4 COST SUMMARY**





ARCHITECTURE  
ENGINEERING  
FIELD SERVICES

## **COST PROPOSAL**

**THE THRASHER GROUP, INC.  
FOR ENGINEERING SERVICES**

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL  
PROTECTION  
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION**

**2023 AML S4 CONTRACT  
BRANCHLAND PORTALS ROUTE 10  
LINCOLN COUNTY, WEST VIRGINIA**

**WVDEP CEOI: 0313-DEP24\*04**

**MAY 8, 2024**

**THRASHER PROJECT #T30-11379**

**COST PROPOSAL  
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BRANCHLAND PORTALS ROUTE 10  
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**COST PROPOSAL  
2023 AML S4 CONTRACT  
BRANCHLAND PORTALS ROUTE 10  
LINCOLN COUNTY, WEST VIRGINIA**

**SECTION 1 PROPOSAL BASIS AND NEED FOR PROJECT**

**PROPOSAL BASIS**

The Branchland Portals Route 10 project is one of twelve (12) projects included in the 2023 AML S4 contract. This proposal is based on the notification received from the WVDEP initiating negotiations for the 2023 AML S4 contract dated November 13, 2023.

Work associated with this project and described in this proposal will be performed at our Beaver Office:

The Thrasher Group, Inc.  
155 Blue Angel Lane  
Beaver, WV 25813

**PROJECT UNDERSTANDING**

The Branchland Portals Route 10 project is located off Route 10 in Branchland, Lincoln County. The general project consists of:

- Evaluation of three (3) mine portals and the potential three (3) portal closure.
- Traffic control.
- Approximately 300 LF of Route 10 road shoulder repair.

This is a general overview of the project design. Should unforeseen conditions be discovered that requires additional design consideration, TTG will notify the WVDEP prior to proceeding with that design work.

**COST PROPOSAL**  
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**LINCOLN COUNTY, WEST VIRGINIA**

## **SECTION 2 PROPOSED SCOPE OF SERVICES**

The following scope of work was prepared based on information collected from the site visit conducted in December 2023 and additional information included in the OSM-51, originally dated 11/7/22 and updated in March 2023.

The Thrasher Group and its subconsultants (collectively TTG) will perform the following tasks as described. Please note, all subconsultant(s) prices are included in the cost summary.

### **TASK I: NEPA and ESA**

#### **TASK I-A: AGENCY COORDINATION**

This task includes coordination with the WVDEP, Environmental Assessment (EA), Bat Habitat Assessment of portals and office work. Any work required for AMLNET is also included.

TTG will prepare and submit an EA to the Office of Surface Mining & Reclamation Enforcement (OSMRE) and address any comments or concerns from OSMRE.

TTG will conduct a Phase I Bat assessment for all open portals associated with the project for possible bat habitat. Work associated with conducting bat habit assessments must be completed by qualified biologists.

The services to be provided will include conducting the Bat Habitat Assessment of all open portals and writing the associated report for this project, as well as any necessary discussions with TTG personnel to incorporate avoidance, minimization, or mitigation actions necessary for the project.

### **TASK II: REALTY**

TTG will research legal ownership of properties by conducting a thorough search of deed records at the appropriate county courthouse that's local to the project and provide copies of the legal documentation to substantiate legal ownership findings for the properties located within the project area. Employees and/or subcontractors hired to perform realty related work will be familiar with the proper techniques and procedures in property research. TTG will contact the landowner(s) and acquire all Rights of Entry including Exploratory Rights of Entry (EROE), Construction Rights of Entry (CROE), and temporary and permanent ingress/egress rights for projects. Furthermore, TTG's Realty Agent will provide progress information on the WVDEP/AMLNET system as required. The Realty Agent will communicate with WVDEP's Real Estate Representative as to progress of landowner negotiations, landowner questions to be addressed, and status of landowner agreements. If a landowner requests to be an additional insurer, the landowners making the request will be added as an additional insurer. TTG's Realty Agent that conducted landowner negotiations and acquired the rights of entry will attend the pre-bid and pre-construction meetings to address any realty related issues. Consideration will be given to the fact that ownership can also change during the period between a pre-bid and pre-construction and

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would require new CROE agreement(s). CROE Realty packets will be updated to make sure that no property has changed ownership prior to the actual Pre- Construction meeting and if so, new agreements will be obtained. Pre-Construction photos of the site(s) will be taken and uploaded into AMLNET along with the EROE and CROE Realty packets. It is assumed that TTG's personnel will have access to AMLNET. If there is a dispute or question as to boundary lines, an attempt will be made to sign up both sides/owners in efforts to avoid a boundary survey. Boundary Surveys conducted by a WV licensed Land Surveyor or title opinions to be completed by an attorney in efforts to resolve boundary disputes and ownership will be discussed with DEP Engineers and Realty before taking any action.

**TASK II-A: EXPLORATORY RIGHT OF ENTRY (EROE)**

This task includes all work conducted during EROE negotiations as detailed above.

**TASK II-B: CONSTRUCTION RIGHT OF ENTRY (CROE)**

This task includes all work conducted during CROE negotiations as detailed above.

**TASK II-C: PRE-BID MEETING NOTICE**

TTG will notify all property owners of the upcoming pre-bid meeting. Realty agent or representative will attend pre-bid meeting.

**TASK II-D: PRE-CONSTRUCTION CONFERENCE NOTICE**

TTG will notify all property owners of the upcoming pre-construction meeting. Realty agent or representative will attend pre-construction conference.

**TASK III: DESIGN**

**TASK III-A: SITE RECONNAISSANCE AND INVESTIGATIONS**

This task includes the initial site visit and all work conducted in preparing this scope of services.

**TASK III-B: SURVEY AND MAPPING**

TTG will deploy a 2-man survey crew to the site to survey the project area. This survey will include,

- survey crew will set a minimum of three (3) control points at the project site.
- Each of the three (3) portal locations.
- Observed existing structures such as, but not limited to, utilities, edge of asphalt pavement, possible staging area across the road, and/or structures.
- Should property corners be observed during the survey activity, those corners will be incorporated into the survey as a data point.

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LINCOLN COUNTY, WEST VIRGINIA**

**TASK III-C: GEOTECHNICAL INVESTIGATION**

Geotechnical investigation will not be required for this project.

**TASK III-D: ANALYSIS AND DESIGN**

After the surveying is complete, TTG will develop a conceptual plan. A meeting will be held with WVDEP onsite to review the design. If the design approach is agreed upon, TTG will proceed to final engineering design and development of construction drawings.

**TASK III-E: PREPARATION OF PLANS, SPECIFICATIONS, AND ENGINEERS ESTIMATE**

TTG will develop the preliminary design package and incorporate the applicable concept and ideas discussed during the conceptual design meeting. Deliverables will include engineering plans, specifications, and estimates. A detailed Engineer's Construction Cost Estimate (ECCE), Engineer's Construction Time Estimate (ECTE), and bid sheet will be developed. The preliminary design will be forwarded to the WVDEP for review and comments. After addressing these comments, TTG will submit the final design package and update the ECCE, ECTE, and bid sheet, if necessary.

This proposal includes a maximum of four (4) review sessions by the WVDEP. The reviews will occur at the following milestones: 30% design, 60% design, 80% design, and 100% design. Plans, design report, specifications, bid sheet, construction cost estimate, and construction time estimate will be submitted to the WVDEP electronically for each review milestone.

The follow is an anticipated project schedule based on the assumption of receiving a Purchase Order by July 1, 2023.

Branchland Portals – Route 10	Estimated Date Range	
NEPA and ESA	7/19/2024	7/24/2024
Realty	7/8/2024	7/10/2024
Survey	7/11/2024	7/15/2024
Design	7/18/2024	7/31/2024
Pre-bid Meeting	9/23/2024	

This schedule does not include estimated dates for approved permits and/or time required to prepare and assign a pre-bid date for the project.

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**2023 AML S4 CONTRACT**  
**BRANCHLAND PORTALS ROUTE 10**  
**LINCOLN COUNTY, WEST VIRGINIA**

**TASK III-F: PERMITTING**

TTG anticipate the project limits to be less than one (1) acre and does not anticipate the need for a Construction National Pollutant Discharge Elimination System Storm Water permit (NPDES).

TTG anticipates a WVDOH MM-109 permit will be required as access to the project area will be off Route 10. TTG will prepare and submit the WVDOH MM-109 permit and, if necessary, will address comments from the WVDOH associated with the application.

TTG does not anticipate additional permits for the project will be required. Should unforeseen conditions be discovered that requires a permit, TTG will notify the WVDEP prior to proceeding with permit application preparation. TTG anticipates WVDEP will consult other agencies, if required.

**TASK III-G: PRE-BID CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the pre-bid meeting.

- a. Work with the WVDEP to establish a pre-bid date.
- b. Provide pre-bid documents such as plans, specifications, and sign in sheet.
- c. Attend and conduct the pre-bid meeting onsite.
- d. Assist WVDEP with addendums, as needed.

**TASK III-H: PRE-CONSTRUCTION CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the preconstruction meeting.

- a. Provide preconstruction documents such as plans, specifications, sign in sheet, and other required documents.
- b. Attend one (1) pre-construction conference onsite.

**TASK IV - CONSTRUCTION OVERSIGHT**

TTG will provide construction oversight for this project. This includes a Resident Project Representative (RPR) who will be on-site daily to observe construction activities. For this proposal, construction time is assumed to be eight (8) hours per day, five (5) days per week for eight (8) weeks. Mileage is assumed to be from Beaver, WV and a per diem of \$50.00. One site visit for the project manager/designer during construction to ensure the contractor is adhering to approved plans and specifications. TTG will conduct inspection reports and input the information into AMLNET. At the conclusion of construction, TTG will certify the project was built in accordance with the plans and specifications.

TTG will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

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**2023 AML S4 CONTRACT**  
**BRANCHLAND PORTALS ROUTE 10**  
**LINCOLN COUNTY, WEST VIRGINIA**

**TASK V - POST-CONSTRUCTION OVERSIGHT**

A TTG engineer will review the as-built plans provided by the contractor following construction, the construction oversight documentation and provide an as-built certification that project was completed according to plans, and/or with allowable exceptions.

TTG will provide a Resident Project Representative to monitor/inspect and document site conditions post-construction to verify project aspects are stable, operating as per the plans, and established.

- TTG has included three (3) site visits for post-construction oversight in this proposal.
- Should additional site visits be required or requested, those additional site visits can be included through change order.

Task V includes one (1) site visit for the project manager during final inspection.

**SECTION 3 COST ESTIMATE**

TTG will complete this project on a time and materials basis not to exceed the estimated costs provided in the Cost Summary without prior WVDEP approval. TTG will only invoice for time and expenses incurred.

Please note that the per diem rates provided in the proposal are a projection based on the Federal Per Diem Rates for the current year and project location. The calculated per diem costs included in this proposal are based on the anticipated number of days that will be required for site visits prior to construction, onsite RPR during construction, and site visits post construction. Per diem rates will be used for required single day trips and days that will require lodging near the project site. The Per Diem rates are as follows:

- Per Diem (meal only; no lodging required) - \$50.00 per day.
- Per Diem w/ Lodging (meal & lodging) - \$175 per day.
- Mileage - \$0.70 per mile.

It is understood that TTG will ensure that all subcontractors are fully insured and have worker's compensation coverage. If you have any additional questions or need additional information, please let me know.



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BRANCHLAND PORTALS ROUTE 10  
LINCOLN COUNTY, WEST VIRGINIA**

**SECTION 4 COST SUMMARY**



ARCHITECTURE  
ENGINEERING  
FIELD SERVICES

## **COST PROPOSAL**

**THE THRASHER GROUP, INC.  
FOR ENGINEERING SERVICES**

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL  
PROTECTION  
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION**

**2023 AML S4 CONTRACT  
BRANCHLAND HUBBALL A  
LINCOLN COUNTY, WEST VIRGINIA**

**WVDEP CEOI: 0313-DEP24\*04**

**MAY 8, 2024**

**THRASHER PROJECT #T30-11380**

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BRANCHLAND HUBBALL A  
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## **SECTION 1 PROPOSAL BASIS AND NEED FOR PROJECT**

### **PROPOSAL BASIS**

The Branchland Hubball A project is one of twelve (12) projects included in the 2023 AML S4 contract. This proposal is based on the notification received from the WVDEP initiating negotiations for the 2023 AML S4 contract dated November 13, 2023.

Work associated with this project and described in this proposal will be performed at our Beaver Office:

The Thrasher Group, Inc.  
155 Blue Angel Lane  
Beaver, WV 25813

### **PROJECT UNDERSTANDING**

The Branchland Hubball A project is located at the intersection of McClellan Highway and Camp Branch Road (Rt 10/8) in Branchland, Lincoln County. The general project consists of:

- Evaluation of eight (8) mine portals and the potential eight (8) portal closures.
- Approximately 900 LF of access road repair.
- Approximately 2,200 LF of access road construction.

This is a general overview of the project design. Should unforeseen conditions be discovered that requires additional design consideration, TTG will notify the WVDEP prior to proceeding with that design work.

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## **SECTION 2 PROPOSED SCOPE OF SERVICES**

The following scope of work was prepared based on information collected from the site visit conducted in December 2023 and additional information included in the OSM-51, originally dated 6/30/87 and updated in November 2022.

The Thrasher Group and its subconsultants (collectively TTG) will perform the following tasks as described. Please note, all subconsultant(s) prices are included in the cost summary.

### **TASK I: NEPA and ESA**

#### **TASK I-A: AGENCY COORDINATION**

This task includes coordination with the WVDEP, Environmental Assessment (EA), Bat Habitat Assessment of portals and office work. Any work required for AMLNET is also included.

TTG will prepare and submit an EA to the Office of Surface Mining & Reclamation Enforcement (OSMRE) and address any comments or concerns from OSMRE.

TTG will conduct a Phase I Bat assessment for all open portals associated with the project for possible bat habitat. Work associated with conducting bat habitat assessments must be completed by qualified biologists.

The services to be provided will include conducting the Bat Habitat Assessment of all open portals and writing the associated report for this project, as well as any necessary discussions with TTG personnel to incorporate avoidance, minimization, or mitigation actions necessary for the project.

### **TASK II: REALTY**

TTG will research legal ownership of properties by conducting a thorough search of deed records at the appropriate county courthouse that's local to the project and provide copies of the legal documentation to substantiate legal ownership findings for the properties located within the project area. Employees and/or subcontractors hired to perform realty related work will be familiar with the proper techniques and procedures in property research. TTG will contact the landowner(s) and acquire all Rights of Entry including Exploratory Rights of Entry (EROE), Construction Rights of Entry (CROE), and temporary and permanent ingress/egress rights for projects. Furthermore, TTG's Realty Agent will provide progress information on the WVDEP/AMLNET system as required. The Realty Agent will communicate with WVDEP's Real Estate Representative as to progress of landowner negotiations, landowner questions to be addressed, and status of landowner agreements. If a landowner requests to be an additional insurer, the landowners making the request will be added as an additional insurer. TTG's Realty Agent that conducted landowner negotiations and acquired the rights of entry will attend the pre-bid and pre-construction meetings to address any realty related issues. Consideration will be given to the fact that ownership can also change during the period between a pre-bid and pre-construction and

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would require new CROE agreement(s). CROE Realty packets will be updated to make sure that no property has changed ownership prior to the actual Pre- Construction meeting and if so, new agreements will be obtained. Pre-Construction photos of the site(s) will be taken and uploaded into AMLNET along with the EROE and CROE Realty packets. It is assumed that TTG's personnel will have access to AMLNET. If there is a dispute or question as to boundary lines, an attempt will be made to sign up both sides/owners in efforts to avoid a boundary survey. Boundary Surveys conducted by a WV licensed Land Surveyor or title opinions to be completed by an attorney in efforts to resolve boundary disputes and ownership will be discussed with DEP Engineers and Realty before taking any action.

**TASK II-A: EXPLORATORY RIGHT OF ENTRY (EROE)**

This task includes all work conducted during EROE negotiations as detailed above.

**TASK II-B: CONSTRUCTION RIGHT OF ENTRY (CROE)**

This task includes all work conducted during CROE negotiations as detailed above.

**TASK II-C: PRE-BID MEETING NOTICE**

TTG will notify all property owners of the upcoming pre-bid meeting. Realty agent or representative will attend pre-bid meeting.

**TASK II-D: PRE-CONSTRUCTION CONFERENCE NOTICE**

TTG will notify all property owners of the upcoming pre-construction meeting. Realty agent or representative will attend pre-construction conference.

**TASK III: DESIGN**

**TASK III-A: SITE RECONNAISSANCE AND INVESTIGATIONS**

This task includes the initial site visit and all work conducted in preparing this scope of services.

**TASK III-B: SURVEY AND MAPPING**

TTG will deploy a 2-man survey crew to the site to survey the project area. This survey will include,

- survey crew will set a minimum of three (3) control points at the project site.
- Start of access road (mine bench) and centerline of access road (mine bench) to portal locations.
- Each of the eight (8) portal locations.
- Observed existing structures such as, but not limited to, utilities, driveways, and/or structures.
- Should property corners be observed during the survey activity, those corners will be incorporated into the survey as a data point.

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**TASK III-C: GEOTECHNICAL INVESTIGATION**

Geotechnical investigation will not be required for this project.

**TASK III-D: ANALYSIS AND DESIGN**

After the surveying is complete, TTG will develop a conceptual plan. A meeting will be held with WVDEP onsite to review the design. If the design approach is agreed upon, TTG will proceed to final engineering design and development of construction drawings.

**TASK III-E: PREPARATION OF PLANS, SPECIFICATIONS, AND ENGINEERS ESTIMATE**

TTG will develop the preliminary design package and incorporate the applicable concept and ideas discussed during the conceptual design meeting. Deliverables will include engineering plans, specifications, and estimates. A detailed Engineer's Construction Cost Estimate (ECCE), Engineer's Construction Time Estimate (ECTE), and bid sheet will be developed. The preliminary design will be forwarded to the WVDEP for review and comments. After addressing these comments, TTG will submit the final design package and update the ECCE, ECTE, and bid sheet, if necessary.

This proposal includes a maximum of four (4) review sessions by the WVDEP. The reviews will occur at the following milestones: 30% design, 60% design, 80% design, and 100% design. Plans, design report, specifications, bid sheet, construction cost estimate, and construction time estimate will be submitted to the WVDEP electronically for each review milestone.

The follow is an anticipated project schedule based on the assumption of receiving a Purchase Order by July 1, 2023.

Branchland – Hubble A	Estimated Date Range	
NEPA and ESA	7/29/2024	8/6/2024
Realty	7/8/2024	7/12/2024
Survey	7/15/2024	7/19/2024
Design	7/24/2024	8/14/2024
Pre-bid Meeting	10/13/2024	

This schedule does not include estimated dates for approved permits and/or time required to prepare and assign a pre-bid date for the project.

**TASK III-F: PERMITTING**

TTG will prepare and submit a Construction National Pollutant Discharge Elimination System Storm Water permit (NPDES). If necessary, TTG will address comments from the WVDEP associated with the application.

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TTG does not anticipate a WVDOH MM-109 permit will be required for this project.

TTG does not anticipate additional permits for the project will be required. Should unforeseen conditions be discovered that requires a permit, TTG will notify the WVDEP prior to proceeding with permit application preparation. TTG anticipates WVDEP will consult other agencies, if required.

**TASK III-G: PRE-BID CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the pre-bid meeting.

- a. Work with the WVDEP to establish a pre-bid date.
- b. Provide pre-bid documents such as plans, specifications, and sign in sheet.
- c. Attend and conduct the pre-bid meeting onsite.
- d. Assist WVDEP with addendums, as needed.

**TASK III-H: PRE-CONSTRUCTION CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the preconstruction meeting.

- a. Provide preconstruction documents such as plans, specifications, sign in sheet, and other required documents.
- b. Attend one (1) pre-construction conference onsite.

**TASK IV - CONSTRUCTION OVERSIGHT**

TTG will provide construction oversight for this project. This includes a Resident Project Representative (RPR) who will be on-site daily to observe construction activities. For this proposal, construction time is assumed to be eight (8) hours per day, five (5) days per week for eight (8) weeks. Mileage is assumed to be from Beaver, WV and a per diem of \$50.00. One site visit for the project manager/designer during construction to ensure the contractor is adhering to approved plans and specifications. TTG will conduct inspection reports and input the information into AMLNET. At the conclusion of construction, TTG will certify the project was built in accordance with the plans and specifications.

TTG will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.



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**TASK V - POST-CONSTRUCTION OVERSIGHT**

A TTG engineer will review the as-built plans provided by the contractor following construction, the construction oversight documentation and provide an as-built certification that project was completed according to plans, and/or with allowable exceptions.

TTG will provide a Resident Project Representative to monitor/inspect and document site conditions post-construction to verify project aspects are stable, operating as per the plans, and established.

- TTG has included three (3) site visits for post-construction oversight in this proposal.
- Should additional site visits be required or requested, those additional site visits can be included through change order.

Task V includes one (1) site visit for the project manager during final inspection.

**SECTION 3 COST ESTIMATE**

TTG will complete this project on a time and materials basis not to exceed the estimated costs provided in the Cost Summary without prior WVDEP approval. TTG will only invoice for time and expenses incurred.

Please note that the per diem rates provided in the proposal are a projection based on the Federal Per Diem Rates for the current year and project location. The calculated per diem costs included in this proposal are based on the anticipated number of days that will be required for site visits prior to construction, onsite RPR during construction, and site visits post construction. Per diem rates will be used for required single day trips and days that will require lodging near the project site. The Per Diem rates are as follows:

- Per Diem (meal only; no lodging required) - \$50.00 per day.
- Per Diem w/ Lodging (meal & lodging) - \$175 per day.
- Mileage - \$0.70 per mile.

It is understood that TTG will ensure that all subcontractors are fully insured and have worker's compensation coverage. If you have any additional questions or need additional information, please let me know.

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BRANCHLAND HUBBALL A  
LINCOLN COUNTY, WEST VIRGINIA**

**SECTION 4 COST SUMMARY**



ARCHITECTURE  
ENGINEERING  
FIELD SERVICES

## **COST PROPOSAL**

**THE THRASHER GROUP, INC.  
FOR ENGINEERING SERVICES**

**WEST VIRGINIA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION**

**2023 AML S4 CONTRACT  
BRANCHLAND (CRUM) DRAINAGE  
LINCOLN COUNTY, WEST VIRGINIA**

**WVDEP CEOI: 0313-DEP24\*04**

**MAY 8, 2024**

**THRASHER PROJECT #T30-11381**

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BRANCHLAND (CRUM) DRAINAGE  
LINCOLN COUNTY, WEST VIRGINIA**

## **SECTION 1 PROPOSAL BASIS AND NEED FOR PROJECT**

### **PROPOSAL BASIS**

The Branchland (Crum) Drainage project is one of twelve (12) projects included in the 2023 AML S4 contract. This proposal is based on the notification received from the WVDEP initiating negotiations for the 2023 AML S4 contract dated November 13, 2023.

Work associated with this project and described in this proposal will be performed at our Beaver Office:

The Thrasher Group, Inc.  
155 Blue Angel Lane  
Beaver, WV 25813

### **PROJECT UNDERSTANDING**

The Branchland (Crum) Drainage project is located off Hubball Road in Branchland, Lincoln County. The general project consists of:

- Evaluation of six (6) mine portals and the potential six (6) portal closures.
- Approximately 700 LF of channel installation (riprap and/or grouted riprap) for mine water conveyance.
- Approximately 200 LF of HDPE drainage pipe.
- Approximately 2 concrete drop inlets.
- Approximately 700 LF of access road repair or rehabilitation.
- Approximately 2000 LF of access road construction.

This is a general overview of the project design. Should unforeseen conditions be discovered that requires additional design consideration, TTG will notify the WVDEP prior to proceeding with that design work.

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## **SECTION 2 PROPOSED SCOPE OF SERVICES**

The following scope of work was prepared based on information collected from the site visit conducted in December 2023 and additional information included in the OSM-51, originally prepared on 12/5/2022.

The Thrasher Group and its subconsultants (collectively TTG) will perform the following tasks as described. Please note, all subconsultant(s) prices are included in the cost summary.

### **TASK I: NEPA and ESA**

#### **TASK I-A: AGENCY COORDINATION**

This task includes coordination with the WVDEP, Environmental Assessment (EA), Bat Habitat Assessment of portals and office work. Any work required for AMLNET is also included.

TTG will prepare and submit an EA to the Office of Surface Mining & Reclamation Enforcement (OSMRE) and address any comments or concerns from OSMRE.

TTG will collect one (1) water sample from the discharging portal(s), have the sample analyzed, and prepare a report of results. Water sample result(s) will be utilized as a comparison to the sample results collected by the WVDEP. Sample(s) collected by TTG will be analyzed for pH and Iron.

TTG will conduct a Phase I Bat assessment for all open portals associated with the project for possible bat habitat. Work associated with conducting bat habitat assessments must be completed by qualified biologists.

The project area is approximately 14 acres and part of the Lower Guyandotte River watershed. Storm drainage and mine discharge will flow to the Guyandotte River which requires increased research and attention during the environmental assessment. Bat portal(s) and mine portals discharging mine water will be part of conducting the field research required for the Environmental assessment. With the site located behind, and in proximity to, residential homes, TTG anticipates additional coordination, planning, and possible interaction with homeowners during the EA. Reports and/or documentation of the environmental assessment will be prepared for submittal to WVDEP and/or agencies. TTG will utilize this information to develop design plans to incorporate avoidance, minimization, or mitigation actions necessary for the project.

### **TASK II: REALTY**

TTG will research legal ownership of properties by conducting a thorough search of deed records at the appropriate county courthouse that's local to the project and provide copies of the legal documentation to substantiate legal ownership findings for the properties located within the project area. Employees and/or subcontractors hired to perform realty related work will be familiar with the proper techniques and procedures in property research. TTG will contact the landowner(s) and acquire all Rights of Entry including Exploratory Rights of Entry

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(EROE), Construction Rights of Entry (CROE), and temporary and permanent ingress/egress rights for projects. Furthermore, TTG's Realty Agent will provide progress information on the WVDEP/AMLNET system as required. The Realty Agent will communicate with WVDEP's Real Estate Representative as to progress of landowner negotiations, landowner questions to be addressed, and status of landowner agreements. If a landowner requests to be an additional insurer, the landowners making the request will be added as an additional insurer. TTG's Realty Agent that conducted landowner negotiations and acquired the rights of entry will attend the pre-bid and pre-construction meetings to address any realty related issues. Consideration will be given to the fact that ownership can also change during the period between a pre-bid and pre-construction and would require new CROE agreement(s). CROE Realty packets will be updated to make sure that no property has changed ownership prior to the actual Pre-Construction meeting and if so, new agreements will be obtained. Pre-Construction photos of the site(s) will be taken and uploaded into AMLNET along with the EROE and CROE Realty packets. It is assumed that TTG's personnel will have access to AMLNET. If there is a dispute or question as to boundary lines, an attempt will be made to sign up both sides/owners in efforts to avoid a boundary survey. Boundary Surveys conducted by a WV licensed Land Surveyor or title opinions to be completed by an attorney in efforts to resolve boundary disputes and ownership will be discussed with DEP Engineers and Realty before taking any action.

**TASK II-A: EXPLORATORY RIGHT OF ENTRY (EROE)**

This task includes all work conducted during EROE negotiations as detailed above.

**TASK II-B: CONSTRUCTION RIGHT OF ENTRY (CROE)**

This task includes all work conducted during CROE negotiations as detailed above.

**TASK II-C: PRE-BID MEETING NOTICE**

TTG will notify all property owners of the upcoming pre-bid meeting. Realty agent or representative will attend pre-bid meeting.

**TASK II-D: PRE-CONSTRUCTION CONFERENCE NOTICE**

TTG will notify all property owners of the upcoming pre-construction meeting. Realty agent or representative will attend pre-construction conference.

**TASK III: DESIGN**

**TASK III-A: SITE RECONNAISSANCE AND INVESTIGATIONS**

This task includes the initial site visit and all work conducted in preparing this scope of services.

**TASK III-B: SURVEY AND MAPPING**

TTG will deploy a 2-man survey crew to the site to survey the project area. This survey will include,

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- Survey crew will set a minimum of three (3) control points at the project site.
- Start of access road and centerline of existing/proposed access road to portal locations.
- Each of the six (6) portal locations.
- Proposed Piezometer location(s).
- Observed existing structures such as, but not limited to, utilities, driveways, and/or structures.
- Should property corners be observed during the survey activity, those corners will be incorporated into the survey as a data point.

**TASK III-C: GEOTECHNICAL INVESTIGATION**

Geotechnical investigation will be necessary for this project site.

a) Piezometer Installation

The subsurface investigation through vertical drilling at four (4) different portal locations will aid in determining the mine void location and the depth to the bottom of the mine void or coal pavement elevation. The boring will be extended to a depth that corresponds to the mine seam elevation. Once located, a piezometer will be installed with a PVC standpipe with lockable cap extending three (3) feet above existing grade to allow for monitoring of water depth in the mine workings. This proposal includes three attempts to locate the mine void.

- If a void is not encountered on the first attempt, the crew will offset approximately 10 ft. and drill a second attempt.
- If a void is not encountered on the second attempt, the crew will offset approximately 10 ft. in the opposite direction of the first attempt and drill a third time.

If a void is encountered, a temporary piezometer with a 10 ft. slotted screen at the bottom will be installed for future monitoring of groundwater levels at the site. The crew will install the temporary piezometers upon completion of the drilling and seal the ground surface around the top to prevent surface water from infiltrating into the hole.

The PVC casing will be left with approximately three (3) feet of pipe above ground. The anticipated footages for this project are as follows:

- 240 feet – drilling in soil
- 720 feet – rock coring
- 340 feet – piezometer installation

The piezometer PVC standpipe will be a minimum 1.5" diameter.

Areas disturbed during geotechnical investigation will be seeded and mulched upon completion of the investigation. Access roads and/or drill pads will be regraded to approximate existing grade.

TTG has included in this proposal three (3) site visits to monitor, measure, and record water levels in the piezometer.



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**TASK III-D: ANALYSIS AND DESIGN**

After the surveying and geotechnical investigation is complete, TTG will develop a conceptual plan. A meeting will be held with WVDEP onsite to review the design. If the design approach is agreed upon, TTG will proceed to final engineering design and development of construction drawings.

**TASK III-E: PREPARATION OF PLANS, SPECIFICATIONS, AND ENGINEERS ESTIMATE**

TTG will develop the preliminary design package and incorporate the applicable concept and ideas discussed during the conceptual design meeting. Deliverables will include engineering plans, specifications, and estimates. A detailed Engineer's Construction Cost Estimate (ECCE), Engineer's Construction Time Estimate (ECTE), and bid sheet will be developed. The preliminary design will be forwarded to the WVDEP for review and comments. After addressing these comments, TTG will submit the final design package and update the ECCE, ECTE, and bid sheet, if necessary.

This proposal includes a maximum of four (4) review sessions by the WVDEP. The reviews will occur at the following milestones: 30% design, 60% design, 80% design, and 100% design. Plans, design report, specifications, bid sheet, construction cost estimate, and construction time estimate will be submitted to the WVDEP electronically for each review milestone.

The follow is an anticipated project schedule based on the assumption of receiving a Purchase Order by July 1, 2023.

Branchland (Crum) Drainage	Estimated Date Range	
NEPA and ESA	8/19/2024	8/29/2024
Realty	7/10/2024	7/15/2024
Survey and Geotech	7/31/2024	8/13/2024
Design	8/15/2024	9/5/2024
Pre-bid Meeting	11/4/2024	

This schedule does not include estimated dates for approved permits and/or time required to prepare and assign a pre-bid date for the project.

**TASK III-F: PERMITTING**

TTG will prepare and submit a Construction National Pollutant Discharge Elimination System Storm Water permit (NPDES). If necessary, TTG will address comments from the WVDEP associated with the application.

TTG does not anticipate a WVDOT MM-109 permit will be required for this project.

TTG does not anticipate additional permits for the project will be required. Should unforeseen conditions be discovered that requires a permit, TTG will notify the WVDEP prior to proceeding

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with permit application preparation. TTG anticipates WVDEP will consult other agencies, if required.

**TASK III-G: PRE-BID CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the pre-bid meeting.

- a. Work with the WVDEP to establish a pre-bid date.
- b. Provide pre-bid documents such as plans, specifications, and sign in sheet.
- c. Attend and conduct the pre-bid meeting onsite.
- d. Assist WVDEP with addendums, as needed.

**TASK III-H: PRE-CONSTRUCTION CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the preconstruction meeting.

- a. Provide preconstruction documents such as plans, specifications, sign in sheet, and other required documents.
- b. Attend one (1) pre-construction conference onsite.

**TASK IV - CONSTRUCTION OVERSIGHT**

TTG will provide construction oversight for this project. This includes a Resident Project Representative (RPR) who will be on-site daily to observe construction activities. For this proposal, construction time is assumed to be eight (8) hours per day, five (5) days per week for sixteen (16) weeks. Mileage is assumed to be from Beaver, WV and a per diem of \$50.00. One site visit for the project manager/designer during construction to ensure the contractor is adhering to approved plans and specifications. TTG will conduct inspection reports and input the information into AMLNET. At the conclusion of construction, TTG will certify the project was built in accordance with the plans and specifications.

TTG will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

**TASK V - POST-CONSTRUCTION OVERSIGHT**

A TTG engineer will review the as-built plans provided by the contractor following construction, the construction oversight documentation and provide an as-built certification that project was completed according to plans, and/or with allowable exceptions.

TTG will provide a Resident Project Representative to monitor/inspect and document site conditions post-construction to verify project aspects are stable, operating as per the plans, and established.

- TTG has included three (3) site visits for post-construction oversight in this proposal.
- Should additional site visits be required or requested, those additional site visits can be included through change order.

Task V includes one (1) site visit for the project manager during final inspection.

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### **SECTION 3 COST ESTIMATE**

TTG will complete this project on a time and materials basis not to exceed the estimated costs provided in the Cost Summary without prior WVDEP approval. TTG will only invoice for time and expenses incurred.

Please note that the per diem rates provided in the proposal are a projection based on the Federal Per Diem Rates for the current year and project location. The calculated per diem costs included in this proposal are based on the anticipated number of days that will be required for site visits prior to construction, onsite RPR during construction, and site visits post construction. Per diem rates will be used for required single day trips and days that will require lodging near the project site. The Per Diem rates are as follows:

- Per Diem (meal only; no lodging required) - \$50.00 per day.
- Per Diem w/ Lodging (meal & lodging) - \$175 per day.
- Mileage - \$0.70 per mile.

It is understood that TTG will ensure that all subcontractors are fully insured and have worker's compensation coverage. If you have any additional questions or need additional information, please let me know.

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ARCHITECTURE  
ENGINEERING  
FIELD SERVICES

## **COST PROPOSAL**

**THE THRASHER GROUP, INC.  
FOR ENGINEERING SERVICES**

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL  
PROTECTION  
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION**

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LINCOLN COUNTY, WEST VIRGINIA**

**WVDEP CEOI: 0313-DEP24\*04**

**MAY 8, 2024**

**THRASHER PROJECT #T30-11382**

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## **SECTION 1 PROPOSAL BASIS AND NEED FOR PROJECT**

### **PROPOSAL BASIS**

The Branchland (Blankenship) Portals project is one of twelve (12) projects included in the 2023 AML S4 contract. This proposal is based on the notification received from the WVDEP initiating negotiations for the 2023 AML S4 contract dated November 13, 2023.

Work associated with this project and described in this proposal will be performed at our Beaver Office:

The Thrasher Group, Inc.  
155 Blue Angel Lane  
Beaver, WV 25813

### **PROJECT UNDERSTANDING**

The Branchland (Blankenship) Portals project is located off Hubball Road (CR 36/1) in Branchland, Lincoln County. The general project consists of:

- Evaluation of eleven (11) mine portals and the potential of eleven (11) portal closures.
- Plugging two (2) subsidence cracks.
- Approximately six hundred (600) LF of channel installation (riprap and/or grouted riprap) for drainage.
- Approximately three thousand (3000) LF of access road repair.
- Approximately one thousand (1000) LF of access road construction.
- Approximately 2,000 cubic yards of unclassified excavation.
- Demolition and disposal of an existing structure.
- Due to observed high levels of iron and low pH readings in the mine water discharge, water sampling during the design development will be completed and recorded as part of this project. Water sample result(s) will be utilized as a comparison to the sample results collected by the WVDEP. Sample(s) collected by TTG will be analyzed for pH and Iron.

This is a general overview of the project design. Should unforeseen conditions be discovered that requires additional design consideration, TTG will notify the WVDEP prior to proceeding with that design work.

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## **SECTION 2 PROPOSED SCOPE OF SERVICES**

The following scope of work was prepared based on information collected from the site visit conducted in December 2023 and additional information included in the OSM-51, originally dated 1987, updated in January 2022, and updated again in December 2023.

The Thrasher Group and its subconsultants (collectively TTG) will perform the following tasks as described. Please note, all subconsultant(s) prices are included in the cost summary.

### **TASK I: NEPA and ESA**

#### **TASK I-A: AGENCY COORDINATION**

This task includes coordination with the WVDEP, Environmental Assessment (EA), Bat Habitat Assessment of portals and office work. Any work required for AMLNET is also included.

TTG will prepare and submit an EA to the Office of Surface Mining & Reclamation Enforcement (OSMRE) and address any comments or concerns from OSMRE.

TTG will collect one (1) water sample from the discharging portal(s), have the sample analyzed, and prepare a report of results. Water sample result(s) will be utilized as a comparison to the sample results collected by the WVDEP. Sample(s) collected by TTG will be analyzed for pH and Iron.

TTG will conduct a Phase I Bat assessment for all open portals associated with the project for possible bat habitat. Work associated with conducting bat habit assessments must be completed by qualified biologists.

The services to be provided will include conducting the Bat Habitat Assessment of all open portals and writing the associated report for this project, as well as any necessary discussions with TTG personnel to incorporate avoidance, minimization, or mitigation actions necessary for the project.

### **TASK II: REALTY**

TTG will research legal ownership of properties by conducting a thorough search of deed records at the appropriate county courthouse that's local to the project and provide copies of the legal documentation to substantiate legal ownership findings for the properties located within the project area. Employees and/or subcontractors hired to perform realty related work will be familiar with the proper techniques and procedures in property research. TTG will contact the landowner(s) and acquire all Rights of Entry including Exploratory Rights of Entry (EROE), Construction Rights of Entry (CROE), and temporary and permanent ingress/egress rights for projects. Furthermore, TTG's Realty Agent will provide progress information on the WVDEP/AMLNET system as required. The Realty Agent will communicate with WVDEP's Real Estate Representative as to progress of landowner negotiations, landowner questions to be addressed, and status of landowner agreements. If a landowner requests to be an additional insurer, the landowners making the



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request will be added as an additional insurer. TTG's Realty Agent that conducted landowner negotiations and acquired the rights of entry will attend the pre-bid and pre-construction meetings to address any realty related issues. Consideration will be given to the fact that ownership can also change during the period between a pre-bid and pre-construction and would require new CROE agreement(s). CROE Realty packets will be updated to make sure that no property has changed ownership prior to the actual Pre- Construction meeting and if so, new agreements will be obtained. Pre-Construction photos of the site(s) will be taken and uploaded into AMLNET along with the EROE and CROE Realty packets. It is assumed that TTG's personnel will have access to AMLNET. If there is a dispute or question as to boundary lines, an attempt will be made to sign up both sides/owners in efforts to avoid a boundary survey. Boundary Surveys conducted by a WV licensed Land Surveyor or title opinions to be completed by an attorney in efforts to resolve boundary disputes and ownership will be discussed with DEP Engineers and Realty before taking any action.

**TASK II-A: EXPLORATORY RIGHT OF ENTRY (EROE)**

This task includes all work conducted during EROE negotiations as detailed above.

**TASK II-B: CONSTRUCTION RIGHT OF ENTRY (CROE)**

This task includes all work conducted during CROE negotiations as detailed above.

**TASK II-C: PRE-BID MEETING NOTICE**

TTG will notify all property owners of the upcoming pre-bid meeting. Realty agent or representative will attend pre-bid meeting.

**TASK II-D: PRE-CONSTRUCTION CONFERENCE NOTICE**

TTG will notify all property owners of the upcoming pre-construction meeting. Realty agent or representative will attend pre-construction conference.

**TASK III: DESIGN**

**TASK III-A: SITE RECONNAISSANCE AND INVESTIGATIONS**

This task includes the initial site visit and all work conducted in preparing this scope of services.

**TASK III-B: SURVEY AND MAPPING**

TTG will deploy a 2-man survey crew to the site to survey the project area. This survey will include,

- Survey crew will set a minimum of three (3) control points at the project site.
- Start of access road and centerline of access road to portal locations.
- Each of the eleven (11) portal locations.
- Edge and perimeter of subsidence crack(s).
- Observed existing structures such as, but not limited to, access road, utilities, driveways,

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- edge of asphalt, and/or structures.
- Topography, as needed.
- Proposed and actual Piezometer location(s).
- Should property corners be observed during the survey activity, those corners will be incorporated into the survey as a data point.

**TASK III-C: GEOTECHNICAL INVESTIGATION**

Geotechnical investigation will be necessary at one portal location. The subsurface investigation through vertical drilling will aid in determining the mine void location and the depth to the bottom of the mine void or coal pavement elevation. The boring will be extended to a depth that corresponds to the mine seam elevation. Once located a piezometer will be installed with a PVC standpipe extending three (3) feet above existing grade to allow for monitoring of water depth in the mine workings. This proposal includes three attempts to locate the mine void.

- If a void is not encountered on the first attempt, the crew will offset approximately 10 ft. and drill a second attempt.
- If a void is not encountered on the second attempt, the crew will offset approximately 10 ft. in the opposite direction of the first attempt and drill a third time.

If a void is encountered, a temporary piezometer with a 10 ft. slotted screen at the bottom will be installed for future monitoring of groundwater levels at the site. The crew will install the temporary piezometers upon completion of the drilling and seal the ground surface around the top to prevent surface water from infiltrating into the hole. The PVC casing will be left with approximately three (3) feet of pipe above ground. The anticipated footages for this project are as follows:

- 60 feet – drilling in soil
- 300 feet – rock coring
- 125 feet – piezometer installation

The piezometer PVC standpipe will be a minimum 1.5" diameter.

Areas disturbed during geotechnical investigation will be seeded and mulched upon completion of the investigation. Access roads and/or drill pads will be regraded to approximate existing grade.

TTG has included in this proposal three (3) site visits to monitor, measure, and record water levels in the piezometer by TTG personnel.

**TASK III-D: ANALYSIS AND DESIGN**

After the surveying and geotechnical investigation is complete, TTG will develop a conceptual plan. A meeting will be held with WVDEP onsite to review the design. If the design approach is agreed upon, TTG will proceed to final engineering design and development of construction drawings.

**TASK III-E: PREPARATION OF PLANS, SPECIFICATIONS, AND ENGINEERS ESTIMATE**

TTG will develop the preliminary design package and incorporate the applicable concept and ideas discussed during the conceptual design meeting. Deliverables will include engineering plans, specifications, and estimates. A detailed Engineer's Construction Cost Estimate (ECCE),

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Engineer's Construction Time Estimate (ECTE), and bid sheet will be developed. The preliminary design will be forwarded to the WVDEP for review and comments. After addressing these comments, TTG will submit the final design package and update the ECCE, ECTE, and bid sheet, if necessary.

This proposal includes a maximum of four (4) review sessions by the WVDEP. The reviews will occur at the following milestones: 30% design, 60% design, 80% design, and 100% design. Plans, design report, specifications, bid sheet, construction cost estimate, and construction time estimate will be submitted to the WVDEP electronically for each review milestone.

The follow is an anticipated project schedule based on the assumption of receiving a Purchase Order by July 1, 2023.

Branchland (Blankenship) Drainage	Estimated Date Range	
NEPA and ESA	8/16/2024	8/23/2024
Realty	7/12/2024	7/15/2024
Survey and Geotech	8/14/2024	8/30/2024
Design	9/2/2024	9/23/2024
Pre-bid Meeting	11/22/2024	

This schedule does not include estimated dates for approved permits and/or time required to prepare and assign a pre-bid date for the project.

**TASK III-F: PERMITTING**

TTG will prepare and submit a Construction National Pollutant Discharge Elimination System Storm Water permit (NPDES). If necessary, TTG will address comments from the WVDEP associated with the application.

TTG anticipates a WVDOH MM-109 permit will be required for this project. TTG will prepare and submit the MM 109. If necessary, TTG will address comments from the WVDOH associated with the application.

TTG does not anticipate additional permits for the project will be required. Should unforeseen conditions be discovered that requires a permit, TTG will notify the WVDEP prior to proceeding with permit application preparation. TTG anticipates WVDEP will consult other agencies, if required.

**TASK III-G: PRE-BID CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the pre-bid meeting.

- a. Work with the WVDEP to establish a pre-bid date.
- b. Provide pre-bid documents such as plans, specifications, and sign in sheet.
- c. Attend and conduct the pre-bid meeting onsite.

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- d. Assist WVDEP with addendums, as needed.

**TASK III-H: PRE-CONSTRUCTION CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the preconstruction meeting.

- a. Provide preconstruction documents such as plans, specifications, sign in sheet, and other required documents.
- b. Attend one (1) pre-construction conference onsite.

**TASK IV - CONSTRUCTION OVERSIGHT**

TTG will provide construction oversight for this project. This includes a Resident Project Representative (RPR) who will be on-site daily to observe construction activities. For this proposal, construction time is assumed to be eight (8) hours per day, five (5) days per week for eighteen (18) weeks. Mileage is assumed to be from Beaver, WV and a per diem of \$50.00. One site visit for the project manager/designer during construction to ensure the contractor is adhering to approved plans and specifications. TTG will conduct inspection reports and input the information into AMLNET. At the conclusion of construction, TTG will certify the project was built in accordance with the plans and specifications.

TTG will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

**TASK V - POST-CONSTRUCTION OVERSIGHT**

A TTG engineer will review the as-built plans provided by the contractor following construction, the construction oversight documentation and provide an as-built certification that project was completed according to plans, and/or with allowable exceptions.

TTG will provide a Resident Project Representative to monitor/inspect and document site conditions post-construction to verify project aspects are stable, operating as per the plans, and established.

- TTG has included three (3) site visits for post-construction oversight in this proposal.
- Should additional site visits be required or requested, those additional site visits can be included through change order.

Task V includes one (1) site visit for the project manager during final inspection.

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### **SECTION 3 COST ESTIMATE**

TTG will complete this project on a time and materials basis not to exceed the estimated costs provided in the Cost Summary without prior WVDEP approval. TTG will only invoice for time and expenses incurred.

Please note that the per diem rates provided in the proposal are a projection based on the Federal Per Diem Rates for the current year and project location. The calculated per diem costs included in this proposal are based on the anticipated number of days that will be required for site visits prior to construction, onsite RPR during construction, and site visits post construction. Per diem rates will be used for required single day trips and days that will require lodging near the project site. The Per Diem rates are as follows:

- Per Diem (meal only; no lodging required) - \$50.00 per day.
- Per Diem w/ Lodging (meal & lodging) - \$175 per day.
- Mileage - \$0.70 per mile.

It is understood that TTG will ensure that all subcontractors are fully insured and have worker's compensation coverage. If you have any additional questions or need additional information, please let me know.

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## **COST PROPOSAL**

**THE THRASHER GROUP, INC.  
FOR ENGINEERING SERVICES**

**WEST VIRGINIA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION**

**2023 AML S4 CONTRACT  
BELCHER HOLLOW AUGER HOLES  
KANAWHA COUNTY, WEST VIRGINIA**

**WVDEP CEOI: 0313-DEP24\*04**

**MAY 8, 2024**

**THRASHER PROJECT #T30-11376**

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KANAWHA COUNTY, WEST VIRGINIA**

## **SECTION 1 PROPOSAL BASIS AND NEED FOR PROJECT**

### PROPOSAL BASIS

The Belcher Hollow Auger Holes project is one of twelve (12) projects included in the 2023 AML S4 contract. This proposal is based on the notification received from the WVDEP initiating negotiations for the 2023 AML S4 contract dated November 13, 2023.

Work associated with this project and described in this proposal will be performed at our Beaver Office:

The Thrasher Group, Inc.  
155 Blue Angel Lane  
Beaver, WV 25813

### PROJECT UNDERSTANDING

The Belcher Hollow Auger Holes project is located on Sanderson Road, Kanawha County. The general project consists of:

- Evaluation of fifteen (15) mine portals and the potential fifteen (15) portal closures.
- Approximately four hundred fifty thousand (450,000) CY of unclassified excavation for highwall backfill.
- Approximately five hundred (500) LF of channel installation (riprap and/or grouted riprap) for mine water conveyance.
- Approximately three thousand six hundred (3,600) LF dry auger hole seal.
- Approximately eight thousand five hundred (8,500) LF of access road repair.
- Approximately one hundred twenty (120) FT HDPE pipe.
- Approximately seven hundred (700) LF of underdrain system.
- Approximately 200 LF of access road construction.

This is a general overview of the project design. Should unforeseen conditions be discovered that requires additional design consideration, TTG will notify the WVDEP prior to proceeding with that design work.

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## **SECTION 2 PROPOSED SCOPE OF SERVICES**

The following scope of work was prepared based on information collected from the site visit conducted in December 2023 and additional information included in the OSM-51, originally dated 8/19/2011 and updated in February 2020.

The Thrasher Group and its subconsultants (collectively TTG) will perform the following tasks as described. Please note, all subconsultant(s) prices are included in the cost summary.

### **TASK I: NEPA and ESA**

#### **TASK I-A: AGENCY COORDINATION**

This task includes coordination with the WVDEP, Environmental Assessment (EA), Bat Habitat Assessment of portals and office work. Any work required for AMLNET is also included.

TTG will prepare and submit an EA to the Office of Surface Mining & Reclamation Enforcement (OSMRE) and address any comments or concerns from OSMRE.

TTG will collect one (1) water sample from the discharging portal(s), have the sample analyzed, and prepare a report of results. Water sample result(s) will be utilized as a comparison to the sample results collected by the WVDEP. Sample(s) collected by TTG will be analyzed for pH and Iron.

TTG will conduct a Phase I Bat assessment for all open portals and augur holes associated with the project for possible bat habitat. Work associated with conducting bat habit assessments must be completed by qualified biologists.

The project consists of three areas totaling approximately 56 acres. The bat portals and augur holes are spread throughout the project area. Blue Creek, which is part of the Elk River watershed, is in the project area and will be considered while conducting the field research required for the Environmental assessment. It is anticipated that multiple site visits will be required to complete the Habitat Assessment, possible impacts to Blue Creek due to storm drainage from the project area, and any mitigation/impacts observed during the investigation. Reports and/or documentation of the environmental assessment will be prepared for submittal to WVDEP and/or agencies. TTG will utilize this information to develop design plans to incorporate avoidance, minimization, or mitigation actions necessary for the project.

### **TASK II: REALTY**

TTG will research legal ownership of properties by conducting a thorough search of deed records at the appropriate county courthouse that's local to the project and provide copies of the legal documentation to substantiate legal ownership findings for the properties located within the project area. Employees and/or subcontractors hired to perform realty related work will be familiar with the proper techniques and procedures in property research. TTG will contact the landowner(s) and acquire all Rights of Entry including Exploratory Rights of Entry

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(EROE), Construction Rights of Entry (CROE), and temporary and permanent ingress/egress rights for projects. Furthermore, TTG's Realty Agent will provide progress information on the WVDEP/AMLNET system as required. The Realty Agent will communicate with WVDEP's Real Estate Representative as to progress of landowner negotiations, landowner questions to be addressed, and status of landowner agreements. If a landowner requests to be an additional insurer, the landowners making the request will be added as an additional insurer. TTG's Realty Agent that conducted landowner negotiations and acquired the rights of entry will attend the pre-bid and pre-construction meetings to address any realty related issues. Consideration will be given to the fact that ownership can also change during the period between a pre-bid and pre-construction and would require new CROE agreement(s). CROE Realty packets will be updated to make sure that no property has changed ownership prior to the actual Pre- Construction meeting and if so, new agreements will be obtained. Pre-Construction photos of the site(s) will be taken and uploaded into AMLNET along with the EROE and CROE Realty packets. It is assumed that TTG's personnel will have access to AMLNET. If there is a dispute or question as to boundary lines, an attempt will be made to sign up both sides/owners in efforts to avoid a boundary survey. Boundary Surveys conducted by a WV licensed Land Surveyor or title opinions to be completed by an attorney in efforts to resolve boundary disputes and ownership will be discussed with DEP Engineers and Realty before taking any action.

**TASK II-A: EXPLORATORY RIGHT OF ENTRY (EROE)**

This task includes all work conducted during EROE negotiations as detailed above.

**TASK II-B: CONSTRUCTION RIGHT OF ENTRY (CROE)**

This task includes all work conducted during CROE negotiations as detailed above.

**TASK II-C: PRE-BID MEETING NOTICE**

TTG will notify all property owners of the upcoming pre-bid meeting. Realty agent or representative will attend pre-bid meeting.

**TASK II-D: PRE-CONSTRUCTION CONFERENCE NOTICE**

TTG will notify all property owners of the upcoming pre-construction meeting. Realty agent or representative will attend pre-construction conference.

**TASK III: DESIGN**

**TASK III-A: SITE RECONNAISSANCE AND INVESTIGATIONS**

This task includes the initial site visit and all work conducted in preparing this scope of services.

**TASK III-B: SURVEY AND MAPPING**

TTG will deploy a 2-man survey crew to the site to survey the project area. This survey will include,

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- survey crew will set a minimum of three (3) control points at the project site.
- Access road (mine bench) and centerline of access road (mine bench) to portal locations.
- Each of the fifteen (15) portal locations.
- Fifteen (15) borehole locations.
- Proposed Piezometer location(s).
- Observed existing structures such as, but not limited to, utilities, driveways, and/or structures.
- Approximate perimeter of highwall area.
- Start and end point of auger holes.
- Should property corners be observed during the survey activity, those corners will be incorporated into the survey as a data point.

TTG will deploy a 1-man drone survey crew to collect topography of the highwall area for grading and channel design. Topography contours will be developed at 2-foot intervals.

**TASK III-C: GEOTECHNICAL INVESTIGATION**

Geotechnical investigation will be necessary for this project site.

a) **Highwall Reclamation**

Exploratory drilling is required to determine the extents and depth of the proposed borrow area to determine the availability of material to reclaim the highwall. This proposal includes,

- Fifteen (15) bore holes located throughout the approximate borrow area for highwall reclamation.
- A total of 375 ft. of soil drilling. Rock coring is not included.

Standard penetration testing and sampling will be performed in each boring at 2.5 ft. intervals to a depth of 20 feet and then 5 feet intervals to refusal in bedrock or as directed. All boreholes will be backfilled with auger cuttings upon completion. All samples will be analyzed, and findings will be included in the Geotechnical report.

b) **Piezometer Installation**

Four (4) portals have been identified as discharging mine water. The subsurface investigation through vertical drilling at these four (4) different portals locations will aid in determining the mine void location and the depth to the bottom of the mine void or coal pavement elevation. The boring will be extended to a depth that corresponds to the mine seam elevation. Once located, a piezometer will be installed with a PVC standpipe extending three (3) feet above existing grade to allow for monitoring of water depth in the mine workings. This proposal includes three attempts to locate the mine void.

- If a void is not encountered on the first attempt, the crew will offset approximately 10 ft. and drill a second attempt.
- If a void is not encountered on the second attempt, the crew will offset approximately 10 ft. in the opposite direction of the first attempt and drill a third time.

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**KANAWHA COUNTY, WEST VIRGINIA**

If a void is encountered, a temporary piezometer with a 10 ft. slotted screen at the bottom will be installed for future monitoring of groundwater levels at the site. The crew will install the temporary piezometers upon completion of the drilling and seal the ground surface around the top to prevent surface water from infiltrating into the hole.

The PVC casing will be left with approximately three (3) feet of pipe above ground. The anticipated footages for this project are as follows:

- 240 feet – drilling in soil
- 930 feet – rock coring
- 400 feet – piezometer installation

The piezometer PVC standpipe will be a minimum 1.5" diameter.

Areas disturbed during geotechnical investigation will be seeded and mulched upon completion of the investigation. Access roads and/or drill pads will be regraded to approximate existing grade.

TTG has included in this proposal three (3) site visits to monitor, measure, and record water levels in the piezometer by TTG personnel.

c) Geotechnical Analysis and Recommendations

Laboratory testing will be performed on select samples from the highwall areas to aid in classifying the soil and determine their engineering properties. Planned lab testing includes moisture content, Atterberg liquid and plastic limits, and standard Proctor testing.

A final report will be prepared upon completion of the field, lab and engineering work including digital logs of the borings, results of the subsurface investigation in the highwall area, field observations, and topographic mapping used to analyze the site conditions, and recommendations for backfilling to reclaim the existing mine highwall.

TASK III-D: ANALYSIS AND DESIGN

After the surveying and geotechnical investigation is complete, TTG will develop a conceptual plan. A meeting will be held with WVDEP onsite to review the design. If the design approach is agreed upon, TTG will proceed to final engineering design and development of construction drawings.

TASK III-E: PREPARATION OF PLANS, SPECIFICATIONS, AND ENGINEERS ESTIMATE

TTG will develop the preliminary design package and incorporate the applicable concept and ideas discussed during the conceptual design meeting. Deliverables will include engineering plans, specifications, and estimates. A detailed Engineer's Construction Cost Estimate (ECCE), Engineer's Construction Time Estimate (ECTE), and bid sheet will be developed. The preliminary design will be forwarded to the WVDEP for review and comments. After addressing these comments, TTG will submit the final design package and update the ECCE, ECTE, and bid sheet, if necessary.

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This proposal includes a maximum of four (4) review sessions by the WVDEP. The reviews will occur at the following milestones: 30% design, 60% design, 80% design, and 100% design. Plans, design report, specifications, bid sheet, construction cost estimate, and construction time estimate will be submitted to the WVDEP electronically for each review milestone.

The follow is an anticipated project schedule based on the assumption of receiving a Purchase Order by July 1, 2023.

Belcher Hollow Augur Holes	Estimated Date Range	
NEPA and ESA	10/03/2024	10/16/2024
Realty	8/5/2024	8/9/2024
Survey and Geotech	9/17/2024	9/30/2024
Design	10/1/2024	10/25/2024
Pre-bid Meeting	2/22/2025	

This schedule does not include estimated dates for approved permits and/or time required to prepare and assign a pre-bid date for the project.

**TASK III-F: PERMITTING**

TTG will prepare and submit a Construction National Pollutant Discharge Elimination System Storm Water permit (NPDES). If necessary, TTG will address comments from the WVDEP associated with the application.

TTG anticipates a WVDOH MM-109 permit will be required for this project. TTG will prepare and submit the WVDOH MM-109 permit and, if necessary, will address comments from the WVDOH associated with the application.

TTG does not anticipate additional permits for the project will be required. Should unforeseen conditions be discovered that requires a permit, TTG will notify the WVDEP prior to proceeding with permit application preparation. TTG anticipates WVDEP will consult other agencies, if required.

**TASK III-G: PRE-BID CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the pre-bid meeting.

- a. Work with the WVDEP to establish a pre-bid date.
- b. Provide pre-bid documents such as plans, specifications, and sign in sheet.
- c. Attend and conduct the pre-bid meeting onsite.
- d. Assist WVDEP with addendums, as needed.

**TASK III-H: PRE-CONSTRUCTION CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the preconstruction meeting.

- a. Provide preconstruction documents such as plans, specifications, sign in sheet, and other

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**KANAWHA COUNTY, WEST VIRGINIA**

required documents.

- b. Attend one (1) pre-construction conference onsite.

#### **TASK IV - CONSTRUCTION OVERSIGHT**

TTG will provide construction oversight for this project. This includes a Resident Project Representative (RPR) who will be on-site daily to observe construction activities. For this proposal, construction time is assumed to be eight (8) hours per day, five (5) days per week for thirty-nine (39) weeks. Mileage is assumed to be from Beaver, WV and a per diem of \$50.00. One site visit for the project manager/designer during construction to ensure the contractor is adhering to approved plans and specifications. TTG will conduct inspection reports and input the information into AMLNET. At the conclusion of construction, TTG will certify the project was built in accordance with the plans and specifications.

TTG will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

#### **TASK V - POST-CONSTRUCTION OVERSIGHT**

A TTG engineer will review the as-built plans provided by the contractor following construction, the construction oversight documentation and provide an as-built certification that project was completed according to plans, and/or with allowable exceptions.

TTG will provide a Resident Project Representative to monitor/inspect and document site conditions post-construction to verify project aspects are stable, operating as per the plans, and established.

- TTG has included three (3) site visits for post-construction oversight in this proposal.
- Should additional site visits be required or requested, those additional site visits can be included through change order.

Task V includes one (1) site visit for the project manager during final inspection.

### **SECTION 3 COST ESTIMATE**

TTG will complete this project on a time and materials basis not to exceed the estimated costs provided in the Cost Summary without prior WVDEP approval. TTG will only invoice for time and expenses incurred.

Please note that the per diem rates provided in the proposal are a projection based on the Federal Per Diem Rates for the current year and project location. The calculated per diem costs included in this proposal are based on the anticipated number of days that will be required for site visits prior to construction, onsite RPR during construction, and site visits post construction. Per diem rates will be used for required single day trips and days that will require lodging near the project site. The Per Diem

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rates are as follows:

- Per Diem (meal only; no lodging required) - \$50.00 per day.
- Per Diem w/ Lodging (meal & lodging) - \$175 per day.
- Mileage - \$0.70 per mile.

It is understood that TTG will ensure that all subcontractors are fully insured and have worker's compensation coverage. If you have any additional questions or need additional information, please let me know.



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2023 AML S4 CONTRACT  
BELCHER HOLLOW AUGER HOLES  
KANAWHA COUNTY, WEST VIRGINIA**

**SECTION 4 COST SUMMARY**



ARCHITECTURE  
ENGINEERING  
FIELD SERVICES

## **COST PROPOSAL**

**THE THRASHER GROUP, INC.  
FOR ENGINEERING SERVICES**

**WEST VIRGINIA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
OFFICE OF ABANDONED MINE LANDS  
AND RECLAMATION**

**2023 AML S4 CONTRACT  
MIDDLE FORK (ADKINS) PORTALS  
KANAWHA COUNTY, WEST VIRGINIA**

**WVDEP CEOI: 0313-DEP24\*04**

**MAY 8, 2024**

**THRASHER PROJECT #T30-11384**

**COST PROPOSAL  
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2023 AML S4 CONTRACT  
MIDDLE FORK (ADKINS) PORTALS  
KANAWHA COUNTY, WEST VIRGINIA**

## **SECTION 1 PROPOSAL BASIS AND NEED FOR PROJECT**

### **PROPOSAL BASIS**

The Middle Fork (Adkins) Portals project is one of twelve (12) projects included in the 2023 AML S4 contract. This proposal is based on the notification received from the WVDEP initiating negotiations for the 2023 AML S4 contract dated November 13, 2023.

Work associated with this project and described in this proposal will be performed at our Beaver Office:

The Thrasher Group, Inc.  
155 Blue Angel Lane  
Beaver, WV 25813

### **PROJECT UNDERSTANDING**

The Middle Fork (Adkins) Portals project is located at the intersection of McClellan Highway and Middle Fork Drive in Kanawha County. The general project consists of:

- Evaluation of four (4) mine portals and the potential four (4) portal closures.
- A temporary creek crossing.
- Approximately 600 LF of access road construction.

This is a general overview of the project design. Should unforeseen conditions be discovered that requires additional design consideration, TTG will notify the WVDEP prior to proceeding with that design work.

## **SECTION 2 PROPOSED SCOPE OF SERVICES**

The following scope of work was prepared based on information collected from the site visit conducted in December 2023 and additional information included in the OSM-51, originally dated 4/29/2022 and updated in April 2023.

The Thrasher Group and its subconsultants (collectively TTG) will perform the following tasks as described. Please note, all subconsultant(s) prices are included in the cost summary.

### **TASK I: NEPA and ESA**

#### **TASK I-A: AGENCY COORDINATION**

This task includes coordination with the WVDEP, Environmental Assessment (EA), Bat Habitat Assessment of portals and office work. Any work required for AMLNET is also included.

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TTG will prepare and submit an EA to the Office of Surface Mining & Reclamation Enforcement (OSMRE) and address any comments or concerns from OSMRE.

TTG will conduct a Phase I Bat assessment for all open portals associated with the project for possible bat habitat. Work associated with conducting bat habit assessments must be completed by qualified biologists.

The services to be provided will include conducting the Bat Habitat Assessment of all open portals and writing the associated report for this project, as well as any necessary discussions with TTG personnel to incorporate avoidance, minimization, or mitigation actions necessary for the project.

**TASK II: REALTY**

TTG will research legal ownership of properties by conducting a thorough search of deed records at the appropriate county courthouse that's local to the project and provide copies of the legal documentation to substantiate legal ownership findings for the properties located within the project area. Employees and/or subcontractors hired to perform realty related work will be familiar with the proper techniques and procedures in property research. TTG will contact the landowner(s) and acquire all Rights of Entry including Exploratory Rights of Entry (EROE), Construction Rights of Entry (CROE), and temporary and permanent ingress/egress rights for projects. Furthermore, TTG's Realty Agent will provide progress information on the WVDEP/AMLNET system as required. The Realty Agent will communicate with WVDEP's Real Estate Representative as to progress of landowner negotiations, landowner questions to be addressed, and status of landowner agreements. If a landowner requests to be an additional insurer, the landowners making the request will be added as an additional insurer. TTG's Realty Agent that conducted landowner negotiations and acquired the rights of entry will attend the pre-bid and pre-construction meetings to address any realty related issues. Consideration will be given to the fact that ownership can also change during the period between a pre-bid and pre-construction and would require new CROE agreement(s). CROE Realty packets will be updated to make sure that no property has changed ownership prior to the actual Pre- Construction meeting and if so, new agreements will be obtained. Pre-Construction photos of the site(s) will be taken and uploaded into AMLNET along with the EROE and CROE Realty packets. It is assumed that TTG's personnel will have access to AMLNET. If there is a dispute or question as to boundary lines, an attempt will be made to sign up both sides/owners in efforts to avoid a boundary survey. Boundary Surveys conducted by a WV licensed Land Surveyor or title opinions to be completed by an attorney in efforts to resolve boundary disputes and ownership will be discussed with DEP Engineers and Realty before taking any action.

**TASK II-A: EXPLORATORY RIGHT OF ENTRY (EROE)**

This task includes all work conducted during EROE negotiations as detailed above.

**TASK II-B: CONSTRUCTION RIGHT OF ENTRY (CROE)**

This task includes all work conducted during CROE negotiations as detailed above.

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**MIDDLE FORK (ADKINS) PORTALS**  
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**TASK II-C: PRE-BID MEETING NOTICE**

TTG will notify all property owners of the upcoming pre-bid meeting. Realty agent or representative will attend pre-bid meeting.

**TASK II-D: PRE-CONSTRUCTION CONFERENCE NOTICE**

TTG will notify all property owners of the upcoming pre-construction meeting. Realty agent or representative will attend pre-construction conference.

**TASK III: DESIGN**

**TASK III-A: SITE RECONNAISSANCE AND INVESTIGATIONS**

This task includes the initial site visit and all work conducted in preparing this scope of services.

**TASK III-B: SURVEY AND MAPPING**

TTG will deploy a 1-man survey crew to the site to survey the project area. This survey will include,

- survey crew will set a minimum of three (3) control points at the project site.
- Locate each of the four (4) portal locations.
- Edge and cross section data points of Middle Fork at the approximate location of the creek crossing.
- Observed existing structures such as, but not limited to, utilities, driveways, mine bench to portals, and/or structures.
- Should property corners be observed during the survey activity, those corners will be incorporated into the survey as a data point.

**TASK III-C: GEOTECHNICAL INVESTIGATION**

Geotechnical investigation will not be required for this project.

**TASK III-D: ANALYSIS AND DESIGN**

After the surveying is complete, TTG will develop a conceptual plan. A meeting will be held with WVDEP onsite to review the design. If the design approach is agreed upon, TTG will proceed to final engineering design and development of construction drawings.

**TASK III-E: PREPARATION OF PLANS, SPECIFICATIONS, AND ENGINEERS ESTIMATE**

TTG will develop the preliminary design package and incorporate the applicable concept and ideas discussed during the conceptual design meeting. Deliverables will include engineering plans, specifications, and estimates. A detailed Engineer's Construction Cost Estimate (ECCE), Engineer's Construction Time Estimate (ECTE), and bid sheet will be developed. The preliminary design will be forwarded to the WVDEP for review and comments. After

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addressing these comments, TTG will submit the final design package and update the ECCE, ECTE, and bid sheet, if necessary.

This proposal includes a maximum of four (4) review sessions by the WVDEP. The reviews will occur at the following milestones: 30% design, 60% design, 80% design, and 100% design. Plans, design report, specifications, bid sheet, construction cost estimate, and construction time estimate will be submitted to the WVDEP electronically for each review milestone.

The follow is an anticipated project schedule based on the assumption of receiving a Purchase Order by July 1, 2023

Middle Fork (Adkins) Portals	Estimated Date Range	
NEPA and ESA	8/07/2024	8/13/2024
Realty	7/22/2024	7/26/2024
Survey	8/01/2024	8/02/2024
Design	8/05/2024	8/19/2024
Pre-bid Meeting	3/17/2025	

This schedule does not include estimated dates for approved permits and/or time required to prepare and assign a pre-bid date for the project.

**TASK III-F: PERMITTING**

TTG will prepare and submit a Construction National Pollutant Discharge Elimination System Storm Water permit (NPDES). If necessary, TTG will address comments from the WVDEP associated with the application.

TTG will prepare and submit a WVDOH MM-109 permit for this project as access to the site will be located off Middle Fork Drive.

TTG will submit the USACE permit for the temporary creek crossing in Middle Fork/Davis Creek. This permit is required for the creek crossing. If necessary, TTG will address comments from the USACE associated with the application.

TTG does not anticipate additional permits for the project will be required. Should unforeseen conditions be discovered that requires a permit, TTG will notify the WVDEP prior to proceeding with permit application preparation. TTG anticipates WVDEP will consult other agencies, if required.

**TASK III-G: PRE-BID CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the pre-bid meeting.

- a. Work with the WVDEP to establish a pre-bid date.
- b. Provide pre-bid documents such as plans, specifications, and sign in sheet.
- c. Attend and conduct the pre-bid meeting onsite.

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- d. Assist WVDEP with addendums, as needed.

**TASK III-H: PRE-CONSTRUCTION CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the preconstruction meeting.

- a. Provide preconstruction documents such as plans, specifications, sign in sheet, and other required documents.
- b. Attend one (1) pre-construction conference onsite.

**TASK IV - CONSTRUCTION OVERSIGHT**

TTG will provide construction oversight for this project. This includes a Resident Project Representative (RPR) who will be on-site daily to observe construction activities. For this proposal, construction time is assumed to be eight (8) hours per day, five (5) days per week for eight (8) weeks. Mileage is assumed to be from Beaver, WV and a per diem of \$50.00.

One site visit for the project manager/designer during construction to ensure the contractor is adhering to approved plans and specifications. TTG will conduct inspection reports and input the information into AMLNET. At the conclusion of construction, TTG will certify the project was built in accordance with the plans and specifications.

TTG will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

**TASK V - POST-CONSTRUCTION OVERSIGHT**

A TTG engineer will review the as-built plans provided by the contractor following construction, the construction oversight documentation and provide an as-built certification that project was completed according to plans, and/or with allowable exceptions.

TTG will provide a Resident Project Representative to monitor/inspect and document site conditions post-construction to verify project aspects are stable, operating as per the plans, and established.

- TTG has included three (3) site visits for post-construction oversight in this proposal.
- Should additional site visits be required or requested, those additional site visits can be included through change order.

Task V includes one (1) site visit for the project manager during final inspection.

**SECTION 3 COST ESTIMATE**

TTG will complete this project on a time and materials basis not to exceed the estimated costs provided in the Cost Summary without prior WVDEP approval. TTG will only invoice for time and expenses incurred.

Please note that the per diem rates provided in the proposal are a projection based on the Federal Per Diem Rates for the current year and project location. The calculated per diem costs included in



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this proposal are based on the anticipated number of days that will be required for site visits prior to construction, onsite RPR during construction, and site visits post construction. Per diem rates will be used for required single day trips and days that will require lodging near the project site. The Per Diem rates are as follows:

- Per Diem (meal only; no lodging required) - \$50.00 per day.
- Per Diem w/ Lodging (meal & lodging) - \$175 per day.
- Mileage - \$0.70 per mile.

It is understood that TTG will ensure that all subcontractors are fully insured and have worker's compensation coverage. If you have any additional questions or need additional information, please let me know.

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**MIDDLE FORK (ADKINS) PORTALS**  
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**SECTION 4 COST SUMMARY**



ARCHITECTURE  
ENGINEERING  
FIELD SERVICES

## **COST PROPOSAL**

**THE THRASHER GROUP, INC.  
FOR ENGINEERING SERVICES**

**WEST VIRGINIA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
OFFICE OF ABANDONED MINE LANDS  
AND RECLAMATION**

**2023 AML S4 CONTRACT  
WEST COLUMBIA B PHASE II  
MASON COUNTY, WEST VIRGINIA**

**WVDEP CEOI: 0313-DEP24\*04**

**MAY 8, 2024**

**THRASHER PROJECT #T30-11373**

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WEST COLUMBIA B PHASE II  
MASON COUNTY, WEST VIRGINIA**

## **SECTION 1 PROPOSAL BASIS AND NEED FOR PROJECT**

### **PROPOSAL BASIS**

The West Columbia B Phase II project is one of twelve (12) projects included in the 2023 AML S4 contract. This proposal is based on the notification received from the WVDEP initiating negotiations for the 2023 AML S4 contract dated November 13, 2023.

Work associated with this project and described in this proposal will be performed at our Beaver Office:

The Thrasher Group, Inc.  
155 Blue Angel Lane  
Beaver, WV 25813

### **PROJECT UNDERSTANDING**

The West Columbia B Phase II project is located off Lieving Road (CR 7) in West Columbia, Mason County. The general project consists of:

- Evaluation of four (4) mine portals and the potential four (4) portal closures.
- Evaluation of one (1) vertical shaft and the potential one (1) vertical shaft closure.
- A temporary creek crossing.
- Approximately 400 LF of creek restoration.
- Replace approximately 80 feet of HDPE culverts (double culvert pipes) with box culvert.
- Approximately 250 LF of channel repair and realignment for drainage capacity.
- Approximately 270 LF of channel installation (riprap and/or grouted riprap) for drainage.
- Approximately 800 LF of access road repair.
- Approximately 500 LF of access road construction.
- Approximately 350 LF HDPE culvert pipe on adjacent property to convey drainage to receiving tributary.
- One drop inlet and open road cut.
- Approximately 15,000 CY unclassified excavation.
- Due to observed high levels of iron and low pH readings in the mine water discharge. Water sample result(s) will be utilized as a comparison to the sample results collected by the WVDEP. Sample(s) collected by TTG will be analyzed for pH and Iron.

This is a general overview of the project design. Should unforeseen conditions be discovered that requires additional design consideration, TTG will notify the WVDEP prior to proceeding with that design work.

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## **SECTION 2 PROPOSED SCOPE OF SERVICES**

The following scope of work was prepared based on information collected from the site visit conducted in December 2023 and additional information included in the OSM-51, originally dated June 2022.

The Thrasher Group and its subconsultants (collectively TTG) will perform the following tasks as described. Please note, all subconsultant(s) prices are included in the cost summary.

### **TASK I: NEPA and ESA**

#### **TASK I-A: AGENCY COORDINATION**

This task includes coordination with the WVDEP, Environmental Assessment (EA), Bat Habitat Assessment of portals and office work. Any work required for AMLNET is also included.

TTG will prepare and submit an EA to the Office of Surface Mining & Reclamation Enforcement (OSMRE) and address any comments or concerns from OSMRE.

TTG will collect one (1) water sample from the discharging portal(s), have the sample analyzed, and prepare a report of results. Water sample result(s) will be utilized as a comparison to the sample results collected by the WVDEP. Sample(s) collected by TTG will be analyzed for pH and Iron.

TTG will conduct a Phase I Bat assessment for all open portals associated with the project for possible bat habitat. Work associated with conducting bat habit assessments must be completed by qualified biologists.

The services to be provided will include conducting the Bat Habitat Assessment of all open portals and writing the associated report for this project, as well as any necessary discussions with TTG personnel to incorporate avoidance, minimization, or mitigation actions necessary for the project.

### **TASK II: REALTY**

TTG will research legal ownership of properties by conducting a thorough search of deed records at the appropriate county courthouse that's local to the project and provide copies of the legal documentation to substantiate legal ownership findings for the properties located within the project area. Employees and/or subcontractors hired to perform realty related work will be familiar with the proper techniques and procedures in property research. TTG will contact the landowner(s) and acquire all Rights of Entry including Exploratory Rights of Entry (EROE), Construction Rights of Entry (CROE), and temporary and permanent ingress/egress rights for projects. Furthermore, TTG's Realty Agent will provide progress information on the WVDEP/AMLNET system as required. The Realty Agent will communicate with WVDEP's Real Estate Representative as to progress of landowner negotiations, landowner questions to be addressed, and status of landowner agreements. If a landowner requests to be an additional insurer, the landowners making the request will be added as an additional insurer. TTG's Realty Agent that conducted landowner

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MASON COUNTY, WEST VIRGINIA**

negotiations and acquired the rights of entry will attend the pre-bid and pre-construction meetings to address any realty related issues. Consideration will be given to the fact that ownership can also change during the period between a pre-bid and pre-construction and would require new CROE agreement(s). CROE Realty packets will be updated to make sure that no property has changed ownership prior to the actual Pre- Construction meeting and if so, new agreements will be obtained. Pre-Construction photos of the site(s) will be taken and uploaded into AMLNET along with the EROE and CROE Realty packets. It is assumed that TTG's personnel will have access to AMLNET. If there is a dispute or question as to boundary lines, an attempt will be made to sign up both sides/owners in efforts to avoid a boundary survey. Boundary Surveys conducted by a WV licensed Land Surveyor or title opinions to be completed by an attorney in efforts to resolve boundary disputes and ownership will be discussed with DEP Engineers and Realty before taking any action.

**TASK II-A: EXPLORATORY RIGHT OF ENTRY (EROE)**

This task includes all work conducted during EROE negotiations as detailed above.

**TASK II-B: CONSTRUCTION RIGHT OF ENTRY (CROE)**

This task includes all work conducted during CROE negotiations as detailed above.

**TASK II-C: PRE-BID MEETING NOTICE**

TTG will notify all property owners of the upcoming pre-bid meeting. Realty agent or representative will attend pre-bid meeting.

**TASK II-D: PRE-CONSTRUCTION CONFERENCE NOTICE**

TTG will notify all property owners of the upcoming pre-construction meeting. Realty agent or representative will attend pre-construction conference.

**TASK III: DESIGN**

**TASK III-A: SITE RECONNAISSANCE AND INVESTIGATIONS**

This task includes the initial site visit and all work conducted in preparing this scope of services.

**TASK III-B: SURVEY AND MAPPING**

TTG will deploy a 2-man survey crew to the site to survey the project area. This survey will include,

- Survey crew will set a minimum of three (3) control points at the project site.
- Start of access road and centerline of access road to portal locations.
- Each of the four (4) portal and vertical shaft locations.
- Edge of creek, centerline of creek, and cross section undisturbed creek to include the approximate location of creek crossing.
- Observed existing structures such as, but not limited to, access road, utilities, driveways,

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**MASON COUNTY, WEST VIRGINIA**

and/or structures.

- Proposed and actual Piezometer location(s).
- Topography of area for channel realignment and repair.
- Should property corners be observed during the survey activity, those corners will be incorporated into the survey as a data point.

**TASK III-C: GEOTECHNICAL INVESTIGATION**

Geotechnical investigation will be necessary for this project site.

a) **Suspected Refuse Pile Area**

A suspected refuse pile has been identified at the project site. Exploratory drilling is required to determine the extents and depth of the suspected refuse pile. This proposal includes,

- Three (3) bore holes located throughout the approximate area of the suspected refuse pile.
- A total of 240 ft. of soil drilling. Rock coring is not included.

Standard penetration testing and sampling will be performed in each boring at 2.5 ft. intervals to a depth of 20 feet and then 5 feet intervals to refusal in bedrock or as directed. All boreholes will be backfilled with auger cuttings upon completion. All samples will be analyzed, and findings will be included in the Geotechnical report.

b) **Piezometer Installation**

The subsurface investigation through vertical drilling at two (2) different locations will aid in determining the mine void location and the depth to the bottom of the mine void or coal pavement elevation. The boring will be extended to a depth that corresponds to the mine seam elevation. Once located, a piezometer will be installed with a PVC standpipe extending three (3) feet above existing grade to allow for monitoring of water depth in the mine workings. This proposal includes three attempts to locate the mine void.

- If a void is not encountered on the first attempt, the crew will offset approximately 10 ft. and drill a second attempt.
- If a void is not encountered on the second attempt, the crew will offset approximately 10 ft. in the opposite direction of the first attempt and drill a third time.

If a void is encountered, a temporary piezometer with a 10 ft. slotted screen at the bottom will be installed for future monitoring of groundwater levels at the site. The crew will install the temporary piezometers upon completion of the drilling and seal the ground surface around the top to prevent surface water from infiltrating into the hole.

The PVC casing will be left with approximately three (3) feet of pipe above ground. The anticipated footages for this project are as follows:

- 120 feet – drilling in soil
- 540 feet – rock coring
- 230 feet – piezometer installation



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The piezometer PVC standpipe will be a minimum 1.5" diameter.

Areas disturbed during geotechnical investigation will be seeded and mulched upon completion of the investigation. Access roads and/or drill pads will be regraded to approximate existing grade.

TTG has included in this proposal includes three (3) site visits to monitor, measure, and record water levels in the piezometer.

**TASK III-D: ANALYSIS AND DESIGN**

After the surveying is complete, TTG will develop a conceptual plan. A meeting will be held with WVDEP onsite to review the design. If the design approach is agreed upon, TTG will proceed to final engineering design and development of construction drawings.

**TASK III-E: PREPARATION OF PLANS, SPECIFICATIONS, AND ENGINEERS ESTIMATE**

TTG will develop the preliminary design package and incorporate the applicable concept and ideas discussed during the conceptual design meeting. Deliverables will include engineering plans, specifications, and estimates. A detailed Engineer's Construction Cost Estimate (ECCE), Engineer's Construction Time Estimate (ECTE), and bid sheet will be developed. The preliminary design will be forwarded to the WVDEP for review and comments. After addressing these comments, TTG will submit the final design package and update the ECCE, ECTE, and bid sheet, if necessary.

This proposal includes a maximum of four (4) review sessions by the WVDEP. The reviews will occur at the following milestones: 30% design, 60% design, 80% design, and 100% design. Plans, design report, specifications, bid sheet, construction cost estimate, and construction time estimate will be submitted to the WVDEP electronically for each review milestone.

The follow is an anticipated project schedule based on the assumption of receiving a Purchase Order by July 1, 2023

West Columbia B Phase II	Estimated Date Range	
NEPA and ESA	11/14/2024	11/19/2024
Realty	8/12/2024	8/16/2024
Survey and Geotech	11/04/2024	11/08/2024
Design	11/11/2024	12/02/2024
Pre-bid Meeting	6/30/2025	

This schedule does not include estimated dates for approved permits and/or time required to prepare and assign a pre-bid date for the project.

**TASK III-F: PERMITTING**

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TTG will prepare and submit a Construction National Pollutant Discharge Elimination System Storm Water permit (NPDES). If necessary, TTG will address comments from the WVDEP associated with the application.

TTG does not anticipate a WVDOH MM-109 permit will be required for this project.

TTG will submit the required USACE permit for this project. If necessary, TTG will address comments from the USACE associated with the application.

TTG does not anticipate additional permits for the project will be required. Should unforeseen conditions be discovered that requires a permit, TTG will notify the WVDEP prior to proceeding with permit application preparation. TTG anticipates WVDEP will consult other agencies, if required.

**TASK III-G: PRE-BID CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the pre-bid meeting.

- a. Work with the WVDEP to establish a pre-bid date.
- b. Provide pre-bid documents such as plans, specifications, and sign in sheet.
- c. Attend and conduct the pre-bid meeting onsite.
- d. Assist WVDEP with addendums, as needed.

**TASK III-H: PRE-CONSTRUCTION CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the preconstruction meeting.

- a. Provide preconstruction documents such as plans, specifications, sign in sheet, and other required documents.
- b. Attend one (1) pre-construction conference onsite.

**TASK IV - CONSTRUCTION OVERSIGHT**

TTG will provide construction oversight for this project. This includes a Resident Project Representative (RPR) who will be on-site daily to observe construction activities. For this proposal, construction time is assumed to be eight (8) hours per day, five (5) days per week for twelve (12) weeks. Mileage is assumed to be from Beaver, WV and a per diem of \$50.00.

One site visit for the project manager/designer during construction to ensure the contractor is adhering to approved plans and specifications. TTG will conduct inspection reports and input the information into AMLNET. At the conclusion of construction, TTG will certify the project was built in accordance with the plans and specifications.

TTG will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

**TASK V - POST-CONSTRUCTION OVERSIGHT**

A TTG engineer will review the as-built plans provided by the contractor following construction, the construction oversight documentation and provide an as-built certification

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that project was completed according to plans, and/or with allowable exceptions.

TTG will provide a Resident Project Representative to monitor/inspect and document site conditions post-construction to verify project aspects are stable, operating as per the plans, and established.

- TTG has included three (3) site visits for post-construction oversight in this proposal.
- Should additional site visits be required or requested, those additional site visits can be included through change order.

Task V includes one (1) site visit for the project manager during final inspection.

### **SECTION 3 COST ESTIMATE**

TTG will complete this project on a time and materials basis not to exceed the estimated costs provided in the Cost Summary without prior WVDEP approval. TTG will only invoice for time and expenses incurred.

Please note that the per diem rates provided in the proposal are a projection based on the Federal Per Diem Rates for the current year and project location. The calculated per diem costs included in this proposal are based on the anticipated number of days that will be required for site visits prior to construction, onsite RPR during construction, and site visits post construction. Per diem rates will be used for required single day trips and days that will require lodging near the project site. The Per Diem rates are as follows:

- Per Diem (meal only; no lodging required) - \$50.00 per day.
- Per Diem w/ Lodging (meal & lodging) - \$175 per day.
- Mileage - \$0.70 per mile.

It is understood that TTG will ensure that all subcontractors are fully insured and have worker's compensation coverage. If you have any additional questions or need additional information, please let me know.

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WEST COLUMBIA B PHASE II  
MASON COUNTY, WEST VIRGINIA**

**SECTION 4 COST SUMMARY**



ARCHITECTURE  
ENGINEERING  
FIELD SERVICES

## **COST PROPOSAL**

**THE THRASHER GROUP, INC.  
FOR ENGINEERING SERVICES**

**WEST VIRGINIA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
OFFICE OF ABANDONED MINE LANDS  
AND RECLAMATION**

**2023 AML S4 CONTRACT  
LANHAM (WORKMAN) PORTALS  
PUTNAM COUNTY, WEST VIRGINIA**

**WVDEP CEOI: 0313-DEP24\*04**

**MAY 8, 2024**

**THRASHER PROJECT #T30-11374**

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2023 AML S4 CONTRACT  
LANHAM (WORKMAN) PORTALS  
PUTNAM COUNTY, WEST VIRGINIA**

## **SECTION 1 PROPOSAL BASIS AND NEED FOR PROJECT**

### **PROPOSAL BASIS**

The Lanham (Workman) Portals project is one of twelve (12) projects included in the 2023 AML S4 contract. This proposal is based on the notification received from the WVDEP initiating negotiations for the 2023 AML S4 contract dated November 13, 2023.

Work associated with this project and described in this proposal will be performed at our Beaver Office:

The Thrasher Group, Inc.  
155 Blue Angel Lane  
Beaver, WV 25813

### **PROJECT UNDERSTANDING**

The Lanham (Workman) Portals project is located off of Harmons Creek Road in Lanham, Putnam County. The general project consists of:

- Evaluation of four (4) mine portals and the potential four (4) portal closures.
- A temporary creek crossing.
- Approximately 100 LF of creekbank protection.
- Approximately 260 LF of channel installation (riprap and/or grouted riprap) for mine water conveyance.
- Approximately 1,300 LF of access road repair.
- Due to observed high levels of iron and low pH readings in the mine water discharge. Water sample result(s) will be utilized as a comparison to the sample results collected by the WVDEP. Sample(s) collected by TTG will be analyzed for pH and Iron.

This is a general overview of the project design. Should unforeseen conditions be discovered that requires additional design consideration, TTG will notify the WVDEP prior to proceeding with that design work.

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## **SECTION 2 PROPOSED SCOPE OF SERVICES**

The following scope of work was prepared based on information collected from the site visit conducted in December 2023 and additional information included in the OSM-51, originally dated 6/9/22 and updated in June 2022.

The Thrasher Group and its subconsultants (collectively TTG) will perform the following tasks as described. Please note, all subconsultant(s) prices are included in the cost summary.

### **TASK I: NEPA and ESA**

#### **TASK I-A: AGENCY COORDINATION**

This task includes coordination with the WVDEP, Environmental Assessment (EA), Bat Habitat Assessment of portals and office work. Any work required for AMLNET is also included.

TTG will prepare and submit an EA to the Office of Surface Mining & Reclamation Enforcement (OSMRE) and address any comments or concerns from OSMRE.

TTG will collect one (1) water sample from the discharging portal(s), have the sample analyzed, and prepare a report of results. Water sample result(s) will be utilized as a comparison to the sample results collected by the WVDEP. Sample(s) collected by TTG will be analyzed for pH and Iron.

TTG will conduct a Phase I Bat assessment for all open portals associated with the project for possible bat habitat. Work associated with conducting bat habit assessments must be completed by qualified biologists.

The services to be provided will include conducting the Bat Habitat Assessment of all open portals and writing the associated report for this project, as well as any necessary discussions with TTG personnel to incorporate avoidance, minimization, or mitigation actions necessary for the project.

### **TASK II: REALTY**

TTG will research legal ownership of properties by conducting a thorough search of deed records at the appropriate county courthouse that's local to the project and provide copies of the legal documentation to substantiate legal ownership findings for the properties located within the project area. Employees and/or subcontractors hired to perform realty related work will be familiar with the proper techniques and procedures in property research. TTG will contact the landowner(s) and acquire all Rights of Entry including Exploratory Rights of Entry (EROE), Construction Rights of Entry (CROE), and temporary and permanent ingress/egress rights for projects. Furthermore, TTG's Realty Agent will provide progress information on the WVDEP/AMLNET system as required. The Realty Agent will communicate with WVDEP's Real Estate Representative as to progress of landowner negotiations, landowner questions to be addressed, and status of landowner agreements. If a landowner requests to be an additional insurer, the landowners making the



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request will be added as an additional insurer. TTG's Realty Agent that conducted landowner negotiations and acquired the rights of entry will attend the pre-bid and pre-construction meetings to address any realty related issues. Consideration will be given to the fact that ownership can also change during the period between a pre-bid and pre-construction and would require new CROE agreement(s). CROE Realty packets will be updated to make sure that no property has changed ownership prior to the actual Pre- Construction meeting and if so, new agreements will be obtained. Pre-Construction photos of the site(s) will be taken and uploaded into AMLNET along with the EROE and CROE Realty packets. It is assumed that TTG's personnel will have access to AMLNET. If there is a dispute or question as to boundary lines, an attempt will be made to sign up both sides/owners in efforts to avoid a boundary survey. Boundary Surveys conducted by a WV licensed Land Surveyor or title opinions to be completed by an attorney in efforts to resolve boundary disputes and ownership will be discussed with DEP Engineers and Realty before taking any action.

**TASK II-A: EXPLORATORY RIGHT OF ENTRY (EROE)**

This task includes all work conducted during EROE negotiations as detailed above.

**TASK II-B: CONSTRUCTION RIGHT OF ENTRY (CROE)**

This task includes all work conducted during CROE negotiations as detailed above.

**TASK II-C: PRE-BID MEETING NOTICE**

TTG will notify all property owners of the upcoming pre-bid meeting. Realty agent or representative will attend pre-bid meeting.

**TASK II-D: PRE-CONSTRUCTION CONFERENCE NOTICE**

TTG will notify all property owners of the upcoming pre-construction meeting. Realty agent or representative will attend pre-construction conference.

**TASK III: DESIGN**

**TASK III-A: SITE RECONNAISSANCE AND INVESTIGATIONS**

This task includes the initial site visit and all work conducted in preparing this scope of services.

**TASK III-B: SURVEY AND MAPPING**

TTG will deploy a 2-man survey crew to the site to survey the project area. This survey will include,

- Survey crew will set a minimum of three (3) control points at the project site.
- Start of access road and centerline of access road to portal locations.
- Each of the four (4) portal locations.
- Edge of creek and cross section of approximate location of creek crossing.

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- Observed existing structures such as, but not limited to, utilities, driveways, and/or structures.
- Should property corners be observed during the survey activity, those corners will be incorporated into the survey as a data point.

**TASK III-C: GEOTECHNICAL INVESTIGATION**

Geotechnical investigation will be necessary at the one portal location that is demonstrating drainage. The subsurface investigation through vertical drilling will aid in determining the mine void location and the depth to the bottom of the mine void or coal pavement elevation. The boring will be extended to a depth that corresponds to the mine seam elevation. Once located a piezometer will be installed with a PVC standpipe extending three (3) feet above existing grade to allow for monitoring of water depth in the mine workings. This proposal includes three attempts to locate the mine void.

- If a void is not encountered on the first attempt, the crew will offset approximately 10 ft. and drill a second attempt.
- If a void is not encountered on the second attempt, the crew will offset approximately 10 ft. in the opposite direction of the first attempt and drill a third time.

If a void is encountered, a temporary piezometer with a 10 ft. slotted screen at the bottom will be installed for future monitoring of groundwater levels at the site. The crew will install the temporary piezometers upon completion of the drilling and seal the ground surface around the top to prevent surface water from infiltrating into the hole. The PVC casing will be left with approximately three (3) feet of pipe above ground. The anticipated footages for this project are as follows:

- 60 feet – drilling in soil
- 300 feet – rock coring
- 125 feet – piezometer installation

The piezometer PVC standpipe will be a minimum 1.5" diameter.

Areas disturbed during geotechnical investigation will be seeded and mulched upon completion of the investigation. Access roads and/or drill pads will be regraded to approximate existing grade.

TTG has included in this proposal includes three (3) site visits to monitor, measure, and record water levels in the piezometer.

**TASK III-D: ANALYSIS AND DESIGN**

After the surveying is complete, TTG will develop a conceptual plan. A meeting will be held with WVDEP onsite to review the design. If the design approach is agreed upon, TTG will proceed to final engineering design and development of construction drawings.

**TASK III-E: PREPARATION OF PLANS, SPECIFICATIONS, AND ENGINEERS ESTIMATE**

TTG will develop the preliminary design package and incorporate the applicable concept and ideas discussed during the conceptual design meeting. Deliverables will include engineering plans, specifications, and estimates. A detailed Engineer's Construction Cost Estimate (ECCE), Engineer's Construction Time Estimate (ECTE), and bid sheet will be developed. The

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preliminary design will be forwarded to the WVDEP for review and comments. After addressing these comments, TTG will submit the final design package and update the ECCE, ECTE, and bid sheet, if necessary.

This proposal includes a maximum of four (4) review sessions by the WVDEP. The reviews will occur at the following milestones: 30% design, 60% design, 80% design, and 100% design. Plans, design report, specifications, bid sheet, construction cost estimate, and construction time estimate will be submitted to the WVDEP electronically for each review milestone.

The follow is an anticipated project schedule based on the assumption of receiving a Purchase Order by July 1, 2023

Lanham (Workman) Portals	Estimated Date Range	
NEPA and ESA	11/06/2024	11/11/2024
Realty	7/29/2024	8/02/2024
Survey and Geotech	10/31/2024	11/01/2024
Design	11/04/2024	11/18/2024
Pre-bid Meeting	1/17/2025	

This schedule does not include estimated dates for approved permits and/or time required to prepare and assign a pre-bid date for the project.

**TASK III-F: PERMITTING**

TTG will prepare and submit a Construction National Pollutant Discharge Elimination System Storm Water permit (NPDES). If necessary, TTG will address comments from the WVDEP associated with the application.

TTG does not anticipate a WVDOH MM-109 permit will be required for this project.

TTG does not anticipate additional permits for the project will be required. Should unforeseen conditions be discovered that requires a permit, TTG will notify the WVDEP prior to proceeding with permit application preparation. TTG anticipates WVDEP will consult other agencies, if required.

**TASK III-G: PRE-BID CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the pre-bid meeting.

- a. Work with the WVDEP to establish a pre-bid date.
- b. Provide pre-bid documents such as plans, specifications, and sign in sheet.
- c. Attend and conduct the pre-bid meeting onsite.
- d. Assist WVDEP with addendums, as needed.

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**TASK III-H: PRE-CONSTRUCTION CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the preconstruction meeting.

- a. Provide preconstruction documents such as plans, specifications, sign in sheet, and other required documents.
- b. Attend one (1) pre-construction conference onsite.

**TASK IV - CONSTRUCTION OVERSIGHT**

TTG will provide construction oversight for this project. This includes a Resident Project Representative (RPR) who will be on-site daily to observe construction activities. For this proposal, construction time is assumed to be eight (8) hours per day, five (5) days per week for eight (8) weeks. Mileage is assumed to be from Beaver, WV and a per diem of \$50.00. One site visit for the project manager/designer during construction to ensure the contractor is adhering to approved plans and specifications. TTG will conduct inspection reports and input the information into AMLNET. At the conclusion of construction, TTG will certify the project was built in accordance with the plans and specifications.

**TASK V - POST-CONSTRUCTION OVERSIGHT**

A TTG engineer will review the as-built plans provided by the contractor following construction, the construction oversight documentation and provide an as-built certification that project was completed according to plans, and/or with allowable exceptions.

TTG will provide a Resident Project Representative to monitor/inspect and document site conditions post-construction to verify project aspects are stable, operating as per the plans, and established.

- TTG has included one (1) site visit per month for the twelve-month (1-year) warranty period for a total of twelve (12) site visits.
- Prepare and upload inspection reports on AMLNET.

Task V includes one (1) site visit for the project manager during final inspection.

**SECTION 3 COST ESTIMATE**

TTG will complete this project on a time and materials basis not to exceed the estimated costs provided in the Cost Summary without prior WVDEP approval. TTG will only invoice for time and expenses incurred.

Please note that the per diem rates provided in the proposal are a projection based on the Federal Per Diem Rates for the current year and project location. The calculated per diem costs included in this proposal are based on the anticipated number of days that will be required for site visits prior to construction, onsite RPR during construction, and site visits post construction. Per diem rates will be used for required single day trips and days that will require lodging near the project site. The Per Diem rates are as follows:

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- Per Diem (meal only; no lodging required) - \$50.00 per day.
- Per Diem w/ Lodging (meal & lodging) - \$175 per day.
- Mileage - \$0.70 per mile.

It is understood that TTG will ensure that all subcontractors are fully insured and have worker's compensation coverage. If you have any additional questions or need additional information, please let me know.

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LANHAM (WORKMAN) PORTALS  
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**SECTION 4 COST SUMMARY**



ARCHITECTURE  
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## **COST PROPOSAL**

**THE THRASHER GROUP, INC.  
FOR ENGINEERING SERVICES**

**WEST VIRGINIA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
OFFICE OF ABANDONED MINE LANDS  
AND RECLAMATION**

**2023 AML S4 CONTRACT  
HARMONDS CREEK PORTALS PHASE II  
PUTNAM COUNTY, WEST VIRGINIA**

**WVDEP CEOI: 0313-DEP24\*04**

**MAY 8, 2024**

**THRASHER PROJECT #T30-11375**

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2023 AML S4 CONTRACT  
HARMONDS CREEK PORTALS PHASE II  
PUTNAM COUNTY, WEST VIRGINIA**

## **SECTION 1 PROPOSAL BASIS AND NEED FOR PROJECT**

### PROPOSAL BASIS

The Harmonds Creek Portals Phase II project is one of twelve (12) projects included in the 2023 AML S4 contract. This proposal is based on the notification received from the WVDEP initiating negotiations for the 2023 AML S4 contract dated November 13, 2023.

Work associated with this project and described in this proposal will be performed at our Beaver Office:

The Thrasher Group, Inc.  
155 Blue Angel Lane  
Beaver, WV 25813

### PROJECT UNDERSTANDING

The Harmonds Creek Portals Phase II project is located off Harmons Creek Road in Lanham, Putnam County. The general project consists of:

- Evaluation of seventeen (17) mine portals and the potential seventeen (17) portal closures.
- A temporary creek crossing.
- Approximately 2,280 LF of channel installation (riprap and/or grouted riprap) for mine water conveyance.
- Approximately 2,900 cubic yards of unclassified excavation.
- Approximately 1,500 LF of access road repair.
- Approximately 3,400 LF of access road construction.
- Due to observed high levels of iron and low pH readings in the mine water discharge. Water sample result(s) will be utilized as a comparison to the sample results collected by the WVDEP. Sample(s) collected by TTG will be analyzed for pH and Iron.

This is a general overview of the project design. Should unforeseen conditions be discovered that requires additional design consideration, TTG will notify the WVDEP prior to proceeding with that design work.

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## **SECTION 2 PROPOSED SCOPE OF SERVICES**

The following scope of work was prepared based on information collected from the site visit conducted in December 2023 and additional information included in the OSM-51, originally prepared in 2012 and updated in June 2022.

The Thrasher Group and its subconsultants (collectively TTG) will perform the following tasks as described. Please note, all subconsultant(s) prices are included in the cost summary.

### **TASK I: NEPA and ESA**

#### **TASK I-A: AGENCY COORDINATION**

This task includes coordination with the WVDEP, Environmental Assessment (EA), Bat Habitat Assessment of portals and office work. Any work required for AMLNET is also included.

TTG will prepare and submit an EA to the Office of Surface Mining & Reclamation Enforcement (OSMRE) and address any comments or concerns from OSMRE.

TTG will collect one (1) water sample from the discharging portal(s), have the sample analyzed, and prepare a report of results. Water sample result(s) will be utilized as a comparison to the sample results collected by the WVDEP. Sample(s) collected by TTG will be analyzed for pH and Iron.

TTG will conduct a Phase I Bat assessment for all open portals associated with the project for possible bat habitat. Work associated with conducting bat habit assessments must be completed by qualified biologists.

The project area is approximately 13 acres and part of the Lower Kanawha River watershed. Storm drainage and iron laden mine discharge flows to Harmond's Creek which is a tributary of the Pocatalico River. Harmond's Creek runs through the center of the project site which will require additional research and attention during the environmental assessment as there will be construction on both sides of the creek and mine discharge will be directed, through channels, to Harmond's Creek. The bat portal(s) and mine portals discharging mine water will be part of conducting the field research required for the Environmental assessment. Reports and/or documentation of the environmental assessment will be prepared for submittal to WVDEP and/or agencies. TTG will utilize this information to develop design plans to incorporate avoidance, minimization, or mitigation actions necessary for the project.

### **TASK II: REALTY**

TTG will research legal ownership of properties by conducting a thorough search of deed records at the appropriate county courthouse that's local to the project and provide copies of the legal documentation to substantiate legal ownership findings for the properties located within the project area. Employees and/or subcontractors hired to perform realty related work will be familiar with the proper techniques and procedures in property research. TTG will contact the landowner(s) and acquire all Rights of Entry including Exploratory Rights of Entry (EROE), Construction Rights of

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Entry (CROE), and temporary and permanent ingress/egress rights for projects. Furthermore, TTG's Realty Agent will provide progress information on the WVDEP/AMLNET system as required. The Realty Agent will communicate with WVDEP's Real Estate Representative as to progress of landowner negotiations, landowner questions to be addressed, and status of landowner agreements.

If a landowner requests to be an additional insurer, the landowners making the request will be added as an additional insurer.

TTG's Realty Agent that conducted landowner negotiations and acquired the rights of entry will attend the pre-bid and pre-construction meetings to address any realty related issues. Consideration will be given to the fact that ownership can also change during the period between a pre-bid and pre-construction and would require new CROE agreement(s). CROE Realty packets will be updated to make sure that no property has changed ownership prior to the actual Pre-Construction meeting and if so, new agreements will be obtained. Pre-Construction photos of the site(s) will be taken and uploaded into AMLNET along with the EROE and CROE Realty packets. It is assumed that TTG's personnel will have access to AMLNET. If there is a dispute or question as to boundary lines, an attempt will be made to sign up both sides/owners in efforts to avoid a boundary survey. Boundary Surveys conducted by a WV licensed Land Surveyor or title opinions to be completed by an attorney in efforts to resolve boundary disputes and ownership will be discussed with DEP Engineers and Realty before taking any action.

**TASK II-A: EXPLORATORY RIGHT OF ENTRY (EROE)**

This task includes all work conducted during EROE negotiations as detailed above.

**TASK II-B: CONSTRUCTION RIGHT OF ENTRY (CROE)**

This task includes all work conducted during CROE negotiations as detailed above.

**TASK II-C: PRE-BID MEETING NOTICE**

TTG will notify all property owners of the upcoming pre-bid meeting. Realty agent or representative will attend pre-bid meeting.

**TASK II-D: PRE-CONSTRUCTION CONFERENCE NOTICE**

TTG will notify all property owners of the upcoming pre-construction meeting. Realty agent or representative will attend pre-construction conference.

**TASK III: DESIGN**

**TASK III-A: SITE RECONNAISSANCE AND INVESTIGATIONS**

This task includes the initial site visit and all work conducted in preparing this scope of services.

**TASK III-B: SURVEY AND MAPPING**

**COST PROPOSAL**  
**2023 AML S4 CONTRACT**  
**HARMONDS CREEK PORTALS PHASE II**  
**PUTNAM COUNTY, WEST VIRGINIA**

TTG will deploy a 1-man survey crew to the site to survey the project area. This survey will include,

- Survey crew will set a minimum of three (3) control points at the project site.
- Start of access road and centerline of access road to portal locations.
  
- Each of the seventeen (17) portal locations.
- Edge of creek and cross section of approximate location of creek crossing.
- Proposed and actual borehole and piezometer locations.
- Approximate perimeter of refuse pile.
- Observed existing structures such as, but not limited to, utilities, driveways, and/or structures.
- Should property corners be observed during the survey activity, those corners will be incorporated into the survey as a data point.

TTG will deploy a 1-man drone survey crew to collect topography of the refuse pile area, associated portals, and tributary. Due to the distance from the portals to the receiving tributary and the steep grade currently at the site, updated contours will be critical to design drainage channels and final grade of the refuse pile regrade area.

**TASK III-C: GEOTECHNICAL INVESTIGATION**

Geotechnical investigation will be necessary for this project site.

**a) Suspected Refuse Pile Area**

The area between Portal 3 and Portal 6 is suspected to contain coal refuse. Channels to convey mine water discharge will be excavated in this area. Exploratory drilling is required to determine the extents and depth of the suspected refuse pile. This proposal includes,

- Six (6) bore holes located throughout the approximate area of the suspected refuse pile.
- A total of 210 ft. of soil drilling. Rock coring is not included.

Standard penetration testing and sampling will be performed in each boring at 2.5 ft. intervals to a depth of 20 feet and then 5 feet intervals to refusal in bedrock or as directed. All boreholes will be backfilled with auger cuttings upon completion. All samples will be analyzed, and findings will be included in the Geotechnical report.

**b) Piezometer Installation**

There are, currently, seventeen (17) portals discharging water. The subsurface investigation through vertical drilling at five (5) different locations (portal groupings) will aid in determining the mine void location and the depth to the bottom of the mine void or coal pavement elevation. The boring will be extended to a depth that corresponds to the mine seam elevation. Once located, a piezometer will be installed with a PVC standpipe extending three (3) feet above existing grade to allow for monitoring of water depth in the mine workings. This proposal includes three attempts to locate the mine void.

- If a void is not encountered on the first attempt, the crew will offset approximately 10 ft. and drill a second attempt.

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- If a void is not encountered on the second attempt, the crew will offset approximately 10 ft. in the opposite direction of the first attempt and drill a third time.

If a void is encountered, a temporary piezometer with a 10 ft. slotted screen at the bottom will be installed for future monitoring of groundwater levels at the site. The crew will install the temporary piezometers upon completion of the drilling and seal the ground surface around the top to prevent surface water from infiltrating into the hole.

The PVC casing will be left with approximately three (3) feet of pipe above ground. The anticipated footages for this project are as follows:

- 810 feet – drilling in soil
- 1500 feet – rock coring
- 625 feet – piezometer installation

The piezometer PVC standpipe will be a minimum 1.5" diameter.

Areas disturbed during geotechnical investigation will be seeded and mulched upon completion of the investigation. Access roads and/or drill pads will be regraded to approximate existing grade.

TTG has included in this proposal three (3) site visits to monitor, measure, and record water levels in the piezometer.

#### **TASK III-D: ANALYSIS AND DESIGN**

After the surveying is complete, TTG will develop a conceptual plan. A meeting will be held with WVDEP onsite to review the design. If the design approach is agreed upon, TTG will proceed to final engineering design and development of construction drawings.

#### **TASK III-E: PREPARATION OF PLANS, SPECIFICATIONS, AND ENGINEERS ESTIMATE**

TTG will develop the preliminary design package and incorporate the applicable concept and ideas discussed during the conceptual design meeting. Deliverables will include engineering plans, specifications, and estimates. A detailed Engineer's Construction Cost Estimate (ECCE), Engineer's Construction Time Estimate (ECTE), and bid sheet will be developed. The preliminary design will be forwarded to the WVDEP for review and comments. After addressing these comments, TTG will submit the final design package and update the ECCE, ECTE, and bid sheet, if necessary.

This proposal includes a maximum of four (4) review sessions by the WVDEP. The reviews will occur at the following milestones: 30% design, 60% design, 80% design, and 100% design. Plans, design report, specifications, bid sheet, construction cost estimate, and construction time estimate will be submitted to the WVDEP electronically for each review milestone.

**COST PROPOSAL**  
**2023 AML S4 CONTRACT**  
**HARMONDS CREEK PORTALS PHASE II**  
**PUTNAM COUNTY, WEST VIRGINIA**

The follow is an anticipated project schedule based on the assumption of receiving a Purchase Order by July 1, 2023

Harmonds Creek Portals Phase II	Estimated Date Range	
NEPA and ESA	11/06/2024	11/11/2024
Realty	7/29/2024	8/02/2024
Survey and Geotech	10/09/2024	10/30/2024
Design	11/04/2024	11/27/2024
Pre-bid Meeting	6/25/2025	

This schedule does not include estimated dates for approved permits and/or time required to prepare and assign a pre-bid date for the project.

**TASK III-F: PERMITTING**

TTG will prepare and submit a Construction National Pollutant Discharge Elimination System Storm Water permit (NPDES). If necessary, TTG will address comments from the WVDEP associated with the application.

TTG will submit the required USACE permit for this project. If necessary, TTG will address comments from the USACE associated with the application.

TTG does not anticipate a WVDOH MM-109 permit will be required for this project.

TTG does not anticipate additional permits for the project will be required. Should unforeseen conditions be discovered that requires a permit, TTG will notify the WVDEP prior to proceeding with permit application preparation.

TTG anticipates WVDEP will consult other agencies, if required.

**TASK III-G: PRE-BID CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the pre-bid meeting.

- a. Work with the WVDEP to establish a pre-bid date.
- b. Provide pre-bid documents such as plans, specifications, and sign in sheet.
- c. Attend and conduct the pre-bid meeting onsite.
- d. Assist WVDEP with addendums, as needed.

**TASK III-H: PRE-CONSTRUCTION CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the preconstruction meeting.

- a. Provide preconstruction documents such as plans, specifications, sign in sheet, and other required documents.
- b. Attend one (1) pre-construction conference onsite.

**COST PROPOSAL**  
**2023 AML S4 CONTRACT**  
**HARMONDS CREEK PORTALS PHASE II**  
**PUTNAM COUNTY, WEST VIRGINIA**

**TASK IV - CONSTRUCTION OVERSIGHT**

TTG will provide construction oversight for this project. This includes a Resident Project Representative (RPR) who will be on-site daily to observe construction activities. For this proposal, construction time is assumed to be eight (8) hours per day, five (5) days per week for sixteen (16) weeks. Mileage is assumed to be from Beaver, WV and a per diem of \$50.00. One site visit for the project manager/designer during construction to ensure the contractor is adhering to approved plans and specifications. TTG will conduct inspection reports and input the information into AMLNET. At the conclusion of construction, TTG will certify the project was built in accordance with the plans and specifications.

TTG will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

**TASK V - POST-CONSTRUCTION OVERSIGHT**

A TTG engineer will review the as-built plans provided by the contractor following construction, the construction oversight documentation and provide an as-built certification that project was completed according to plans, and/or with allowable exceptions.

TTG will provide a Resident Project Representative to monitor/inspect and document site conditions post-construction to verify project aspects are stable, operating as per the plans, and established.

- TTG has included three (3) site visits for post-construction oversight in this proposal.
- Should additional site visits be required or requested, those additional site visits can be included through change order.

Task V includes one (1) site visit for the project manager during final inspection.

**SECTION 3 COST ESTIMATE**

TTG will complete this project on a time and materials basis not to exceed the estimated costs provided in the Cost Summary without prior WVDEP approval. TTG will only invoice for time and expenses incurred.

Please note that the per diem rates provided in the proposal are a projection based on the Federal Per Diem Rates for the current year and project location. The calculated per diem costs included in this proposal are based on the anticipated number of days that will be required for site visits prior to construction, onsite RPR during construction, and site visits post construction. Per diem rates will be used for required single day trips and days that will require lodging near the project site. The Per Diem

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rates are as follows:

- Per Diem (meal only; no lodging required) - \$50.00 per day.
- Per Diem w/ Lodging (meal & lodging) - \$175 per day.
- Mileage - \$0.70 per mile.

It is understood that TTG will ensure that all subcontractors are fully insured and have worker's compensation coverage. If you have any additional questions or need additional information, please let me know.



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2023 AML S4 CONTRACT  
HARMONDS CREEK PORTALS PHASE II  
PUTNAM COUNTY, WEST VIRGINIA**

**SECTION 4 COST SUMMARY**



ARCHITECTURE  
ENGINEERING  
FIELD SERVICES

## **COST PROPOSAL**

**THE THRASHER GROUP, INC.  
FOR ENGINEERING SERVICES**

**WEST VIRGINIA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
OFFICE OF ABANDONED MINE LANDS  
AND RECLAMATION**

**2023 AML S4 CONTRACT  
GUYAN RIVER REFUSE  
LINCOLN COUNTY, WEST VIRGINIA**

**WVDEP CEOI: 0313-DEP24\*04**

**MAY 8, 2024**

**THRASHER PROJECT #T30-11376**

**COST PROPOSAL  
2023 AML S4 CONTRACT  
GUYAN RIVER REFUSE  
LINCOLN COUNTY, WEST VIRGINIA**

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**COST PROPOSAL  
2023 AML S4 CONTRACT  
GUYAN RIVER REFUSE  
LINCOLN COUNTY, WEST VIRGINIA**

## **SECTION 1 PROPOSAL BASIS AND NEED FOR PROJECT**

### **PROPOSAL BASIS**

The Guyan River Refuse project is one of twelve (12) projects included in the 2023 AML S4 contract. This proposal is based on the notification received from the WVDEP initiating negotiations for the 2023 AML S4 contract dated November 13, 2023.

Work associated with this project and described in this proposal will be performed at our Beaver Office:

The Thrasher Group, Inc.  
155 Blue Angel Lane  
Beaver, WV 25813

### **PROJECT UNDERSTANDING**

The Guyan River Refuse project is located between 6 Mile Road and Guyan River Road in Branchland, Lincoln County. The general project consists of:

- Evaluation of three (3) mine portals and the potential three (3) portal closures.
- Approximately 115,000 CY of unclassified excavation.
- Approximately 700 LF of channel installation (riprap and/or grouted riprap) for mine water conveyance.
- Approximately 2,700 LF of access road repair.
- Approximately 200 LF of access road construction.

This is a general overview of the project design. Should unforeseen conditions be discovered that requires additional design consideration, TTG will notify the WVDEP prior to proceeding with that design work.

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GUYAN RIVER REFUSE  
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## **SECTION 2 PROPOSED SCOPE OF SERVICES**

The following scope of work was prepared based on information collected from the site visit conducted in December 2023 and additional information included in the OSM-51, originally dated 7/3/87 and updated in March 2023.

The Thrasher Group and its subconsultants (collectively TTG) will perform the following tasks as described. Please note, all subconsultant(s) prices are included in the cost summary.

### **TASK I: NEPA and ESA**

#### **TASK I-A: AGENCY COORDINATION**

This task includes coordination with the WVDEP, Environmental Assessment (EA), Bat Habitat Assessment of portals and office work. Any work required for AMLNET is also included.

TTG will prepare and submit an EA to the Office of Surface Mining & Reclamation Enforcement (OSMRE) and address any comments or concerns from OSMRE.

TTG will collect one (1) water sample from the discharging portal(s), have the sample analyzed, and prepare a report of results. Water sample result(s) will be utilized as a comparison to the sample results collected by the WVDEP. Sample(s) collected by TTG will be analyzed for pH and Iron.

TTG will conduct a Phase I Bat assessment for all open portals associated with the project for possible bat habitat. Work associated with conducting bat habit assessments must be completed by qualified biologists.

The services to be provided will include conducting the Bat Habitat Assessment of all open portals and writing the associated report for this project, as well as any necessary discussions with TTG personnel to incorporate avoidance, minimization, or mitigation actions necessary for the project.

### **TASK II: REALTY**

TTG will research legal ownership of properties by conducting a thorough search of deed records at the appropriate county courthouse that's local to the project and provide copies of the legal documentation to substantiate legal ownership findings for the properties located within the project area. Employees and/or subcontractors hired to perform realty related work will be familiar with the proper techniques and procedures in property research. TTG will contact the landowner(s) and acquire all Rights of Entry including Exploratory Rights of Entry (EROE), Construction Rights of Entry (CROE), and temporary and permanent ingress/egress rights for projects. Furthermore, TTG's Realty Agent will provide progress information on the WVDEP/AMLNET system as required. The Realty Agent will communicate with WVDEP's Real Estate Representative as to progress of landowner negotiations, landowner questions to be addressed, and status of landowner agreements. If a landowner requests to be an additional

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2023 AML S4 CONTRACT  
GUYAN RIVER REFUSE  
LINCOLN COUNTY, WEST VIRGINIA**

insurer, the landowners making the request will be added as an additional insurer. TTG's Realty Agent that conducted landowner negotiations and acquired the rights of entry will attend the pre-bid and pre-construction meetings to address any realty related issues. Consideration will be given to the fact that ownership can also change during the period between a pre-bid and pre-construction and would require new CROE agreement(s). CROE Realty packets will be updated to make sure that no property has changed ownership prior to the actual Pre- Construction meeting and if so, new agreements will be obtained. Pre-Construction photos of the site(s) will be taken and uploaded into AMLNET along with the EROE and CROE Realty packets. It is assumed that TTG's personnel will have access to AMLNET. If there is a dispute or question as to boundary lines, an attempt will be made to sign up both sides/owners in efforts to avoid a boundary survey. Boundary Surveys conducted by a WV licensed Land Surveyor or title opinions to be completed by an attorney in efforts to resolve boundary disputes and ownership will be discussed with DEP Engineers and Realty before taking any action.

**TASK II-A: EXPLORATORY RIGHT OF ENTRY (EROE)**

This task includes all work conducted during EROE negotiations as detailed above.

**TASK II-B: CONSTRUCTION RIGHT OF ENTRY (CROE)**

This task includes all work conducted during CROE negotiations as detailed above.

**TASK II-C: PRE-BID MEETING NOTICE**

TTG will notify all property owners of the upcoming pre-bid meeting. Realty agent or representative will attend pre-bid meeting.

**TASK II-D: PRE-CONSTRUCTION CONFERENCE NOTICE**

TTG will notify all property owners of the upcoming pre-construction meeting. Realty agent or representative will attend pre-construction conference.

**TASK III: DESIGN**

**TASK III-A: SITE RECONNAISSANCE AND INVESTIGATIONS**

This task includes the initial site visit and all work conducted in preparing this scope of services.

**TASK III-B: SURVEY AND MAPPING**

TTG will deploy a 2-man survey crew to the site to survey the project area. This survey will include,

- survey crew will set a minimum of three (3) control points at the project site.
- Start of access road (mine bench) and centerline of access road (mine bench) to portal locations.
- Each of the three (3) portal locations.
- Proposed and actual thirteen (13) borehole locations.

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**LINCOLN COUNTY, WEST VIRGINIA**

- Observed existing structures such as, but not limited to, utilities, driveways, and/or structures.
- Approximate perimeter of refuse pile.
- Should property corners be observed during the survey activity, those corners will be incorporated into the survey as a data point.

TTG will deploy a 1-man drone survey crew to collect topography of the refuse pile area for grading and channel design.

**TASK III-C: GEOTECHNICAL INVESTIGATION**

Geotechnical investigation will be necessary for this project site.

a) **Refuse Pile Area**

Exploratory drilling is required to determine the extents and depth of the suspected refuse pile. This proposal includes,

- Thirteen (13) bore holes located throughout the approximate area of the refuse pile.
- A total of 400 ft. of soil drilling. Rock coring is not included.

Standard penetration testing and sampling will be performed in each boring at 2.5 ft. intervals to a depth of 20 feet and then 5 feet intervals to refusal in bedrock or as directed. All boreholes will be backfilled with auger cuttings upon completion. All samples will be analyzed, and findings will be included in the Geotechnical report.

Areas disturbed during geotechnical investigation will be seeded and mulched upon completion of the investigation. Access roads and/or drill pads will be regraded to approximate existing grade.

**TASK III-D: ANALYSIS AND DESIGN**

After the surveying is complete, TTG will develop a conceptual plan. A meeting will be held with WVDEP onsite to review the design. If the design approach is agreed upon, TTG will proceed to final engineering design and development of construction drawings.

**TASK III-E: PREPARATION OF PLANS, SPECIFICATIONS, AND ENGINEERS ESTIMATE**

TTG will develop the preliminary design package and incorporate the applicable concept and ideas discussed during the conceptual design meeting. Deliverables will include engineering plans, specifications, and estimates. A detailed Engineer's Construction Cost Estimate (ECCE), Engineer's Construction Time Estimate (ECTE), and bid sheet will be developed. The preliminary design will be forwarded to the WVDEP for review and comments. After addressing these comments, TTG will submit the final design package and update the ECCE, ECTE, and bid sheet, if necessary.

This proposal includes a maximum of four (4) review sessions by the WVDEP. The reviews will occur at the following milestones: 30% design, 60% design, 80% design, and 100% design. Plans, design report, specifications, bid sheet, construction cost estimate, and construction time estimate will be submitted to the WVDEP electronically for each review milestone.

**COST PROPOSAL  
2023 AML S4 CONTRACT  
GUYAN RIVER REFUSE  
LINCOLN COUNTY, WEST VIRGINIA**

The follow is an anticipated project schedule based on the assumption of receiving a Purchase Order by July 1, 2023

Guyan River Refuse	Estimated Date Range	
NEPA and ESA	9/19/2024	9/26/2024
Realty	7/16/2024	7/19/2024
Survey and Geotech	9/02/2024	9/16/2024
Design	9/17/2024	10/08/2024
Pre-bid Meeting	2/05/2025	

This schedule does not include estimated dates for approved permits and/or time required to prepare and assign a pre-bid date for the project.

**TASK III-F: PERMITTING**

TTG will prepare and submit a Construction National Pollutant Discharge Elimination System Storm Water permit (NPDES).

If necessary, TTG will address comments from the WVDEP associated with the application.

TTG does not anticipate a WVDOH MM-109 permit will be required for this project.

TTG does not anticipate additional permits for the project will be required. Should unforeseen conditions be discovered that requires a permit, TTG will notify the WVDEP prior to proceeding with permit application preparation. TTG anticipates WVDEP will consult other agencies, if required.

**TASK III-G: PRE-BID CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the pre-bid meeting.

- a. Work with the WVDEP to establish a pre-bid date.
- b. Provide pre-bid documents such as plans, specifications, and sign in sheet.
- c. Attend and conduct the pre-bid meeting onsite.
- d. Assist WVDEP with addendums, as needed.

**TASK III-H: PRE-CONSTRUCTION CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the preconstruction meeting.

- a. Provide preconstruction documents such as plans, specifications, sign in sheet, and other required documents.
- b. Attend one (1) pre-construction conference onsite.

**TASK IV - CONSTRUCTION OVERSIGHT**

TTG will provide construction oversight for this project. This includes a Resident Project Representative (RPR) who will be on-site daily to observe construction activities. For this proposal,



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LINCOLN COUNTY, WEST VIRGINIA**

construction time is assumed to be eight (8) hours per day, five (5) days per week for eighteen (18) weeks. Mileage is assumed to be from Beaver, WV and a per diem of \$50.00. One site visit for the project manager/designer during construction to ensure the contractor is adhering to approved plans and specifications. TTG will conduct inspection reports and input the information into AMLNET. At the conclusion of construction, TTG will certify the project was built in accordance with the plans and specifications.

TTG will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

**TASK V - POST-CONSTRUCTION OVERSIGHT**

A TTG engineer will review the as-built plans provided by the contractor following construction, the construction oversight documentation and provide an as-built certification that project was completed according to plans, and/or with allowable exceptions.

TTG will provide a Resident Project Representative to monitor/inspect and document site conditions post-construction to verify project aspects are stable, operating as per the plans, and established.

- TTG has included three (3) site visits for post-construction oversight in this proposal.
- Should additional site visits be required or requested, those additional site visits can be included through change order.

Task V includes one (1) site visit for the project manager during final inspection.

**SECTION 3 COST ESTIMATE**

TTG will complete this project on a time and materials basis not to exceed the estimated costs provided in the Cost Summary without prior WVDEP approval. TTG will only invoice for time and expenses incurred.

Please note that the per diem rates provided in the proposal are a projection based on the Federal Per Diem Rates for the current year and project location. The calculated per diem costs included in this proposal are based on the anticipated number of days that will be required for site visits prior to construction, onsite RPR during construction, and site visits post construction. Per diem rates will be used for required single day trips and days that will require lodging near the project site. The Per Diem rates are as follows:

- Per Diem (meal only; no lodging required) - \$50.00 per day.
- Per Diem w/ Lodging (meal & lodging) - \$175 per day.
- Mileage - \$0.70 per mile.

It is understood that TTG will ensure that all subcontractors are fully insured and have worker's compensation coverage. If you have any additional questions or need additional information, please let me know.

**COST PROPOSAL  
2023 AML S4 CONTRACT  
GUYAN RIVER REFUSE  
LINCOLN COUNTY, WEST VIRGINIA**

**SECTION 4 COST SUMMARY**



ARCHITECTURE  
ENGINEERING  
FIELD SERVICES

## **COST PROPOSAL**

**THE THRASHER GROUP, INC.  
FOR ENGINEERING SERVICES**

**WEST VIRGINIA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
OFFICE OF ABANDONED MINE LANDS  
AND RECLAMATION**

**2023 AML S4 CONTRACT  
CADBURY LAND DRAINAGE AND HIGHWALL  
KANAWHA COUNTY, WEST VIRGINIA**

**WVDEP CEOI: 0313-DEP24\*04**

**MAY 8, 2024**

**THRASHER PROJECT #T30-11377**

**COST PROPOSAL  
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CADBURY LAND DRAINAGE AND HIGHWALL  
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**COST PROPOSAL  
2023 AML S4 CONTRACT  
CADBURY LAND DRAINAGE AND HIGHWALL  
KANAWHA COUNTY, WEST VIRGINIA**

## **SECTION 1 PROPOSAL BASIS AND NEED FOR PROJECT**

### **PROPOSAL BASIS**

The Cadbury Land Drainage and Highwall project is one of twelve (12) projects included in the 2023 AML S4 contract. This proposal is based on the notification received from the WVDEP initiating negotiations for the 2023 AML S4 contract dated November 13, 2023.

Work associated with this project and described in this proposal will be performed at our Beaver Office:

The Thrasher Group, Inc.  
155 Blue Angel Lane  
Beaver, WV 25813

### **PROJECT UNDERSTANDING**

The Cadbury Land Drainage and Highwall project is located off Cadbury Lane (CR 29/1) in Kanawha County. The general project consists of:

- Approximately seven hundred fifty thousand (750,000) cubic yards of unclassified excavation.
- Approximately three thousand eight hundred (3800) LF of channel installation (riprap and/or grouted riprap) for drainage.
- Approximately two thousand three hundred (2,300) LF of access road repair.
- Approximately five thousand five hundred (5,500) LF of access road construction.
- Stormwater retention and/or detention system.
- Approximately seven thousand (7,000) LF of rock core and/or underdrain at toe of highwall.
- Approximately one hundred (100) LF HDPE culvert pipe.
- Due to observed high levels of iron and low pH readings in the mine water discharge. Water sample result(s) will be utilized as a comparison to the sample results collected by the WVDEP. Sample(s) collected by TTG will be analyzed for pH and Iron.

This is a general overview of the project design. Should unforeseen conditions be discovered that requires additional design consideration, TTG will notify the WVDEP prior to proceeding with that design work.

**COST PROPOSAL**  
**2023 AML S4 CONTRACT**  
**CADBURY LAND DRAINAGE AND HIGHWALL**  
**KANAWHA COUNTY, WEST VIRGINIA**

## **SECTION 2 PROPOSED SCOPE OF SERVICES**

The following scope of work was prepared based on information collected from the site visit conducted in December 2023 and additional information included in the OSM-51, originally dated 2015, updated in 2021, and updated again in 2022.

The Thrasher Group and its subconsultants (collectively TTG) will perform the following tasks as described. Please note, all subconsultant(s) prices are included in the cost summary.

### **TASK I: NEPA and ESA**

#### **TASK I-A: AGENCY COORDINATION**

This task includes coordination with the WVDEP, Environmental Assessment (EA), and office work. Any work required for AMLNET is also included.

TTG will prepare and submit an EA to the Office of Surface Mining & Reclamation Enforcement (OSMRE) and address any comments or concerns from OSMRE.

TTG will collect one (1) water sample from the discharging portal(s), have the sample analyzed, and prepare a report of results. Water sample result(s) will be utilized as a comparison to the sample results collected by the WVDEP. Sample(s) collected by TTG will be analyzed for pH and Iron.

### **TASK II: REALTY**

TTG will research legal ownership of properties by conducting a thorough search of deed records at the appropriate county courthouse that's local to the project and provide copies of the legal documentation to substantiate legal ownership findings for the properties located within the project area. Employees and/or subcontractors hired to perform realty related work will be familiar with the proper techniques and procedures in property research. TTG will contact the landowner(s) and acquire all Rights of Entry including Exploratory Rights of Entry (EROE), Construction Rights of Entry (CROE), and temporary and permanent ingress/egress rights for projects. Furthermore, TTG's Realty Agent will provide progress information on the WVDEP/AMLNET system as required. The Realty Agent will communicate with WVDEP's Real Estate Representative as to progress of landowner negotiations, landowner questions to be addressed, and status of landowner agreements. If a landowner requests to be an additional insurer, the landowners making the request will be added as an additional insurer. TTG's Realty Agent that conducted landowner negotiations and acquired the rights of entry will attend the pre-bid and pre-construction meetings to address any realty related issues. Consideration will be given to the fact that ownership can also change during the period between a pre-bid and pre-construction and would require new CROE agreement(s). CROE Realty packets will be updated to make sure that no property has changed ownership prior to the actual Pre- Construction meeting and if so, new agreements will be obtained. Pre-Construction photos of the site(s) will be taken and uploaded into AMLNET along with the EROE and CROE Realty packets. It is assumed that TTG's personnel will have access to AMLNET. If there is a dispute or question as to boundary lines, an attempt will be made to sign up

**COST PROPOSAL**  
**2023 AML S4 CONTRACT**  
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**KANAWHA COUNTY, WEST VIRGINIA**

both sides/owners in efforts to avoid a boundary survey. Boundary Surveys conducted by a WV licensed Land Surveyor or title opinions to be completed by an attorney in efforts to resolve boundary disputes and ownership will be discussed with DEP Engineers and Realty before taking any action.

**TASK II-A: EXPLORATORY RIGHT OF ENTRY (EROE)**

This task includes all work conducted during EROE negotiations as detailed above.

**TASK II-B: CONSTRUCTION RIGHT OF ENTRY (CROE)**

This task includes all work conducted during CROE negotiations as detailed above.

**TASK II-C: PRE-BID MEETING NOTICE**

TTG will notify all property owners of the upcoming pre-bid meeting. Realty agent or representative will attend pre-bid meeting.

**TASK II-D: PRE-CONSTRUCTION CONFERENCE NOTICE**

TTG will notify all property owners of the upcoming pre-construction meeting. Realty agent or representative will attend pre-construction conference.

**TASK III: DESIGN**

**TASK III-A: SITE RECONNAISSANCE AND INVESTIGATIONS**

This task includes the initial site visit and all work conducted in preparing this scope of services.

**TASK III-B: SURVEY AND MAPPING**

TTG will deploy a 2-man survey crew to the site to survey the project area. This survey will include,

- Survey crew will set a minimum of three (3) control points at the project site.
- Start of access road and centerline of access road through the project site.
- Centerline of existing channel through the project site.
- Observed existing structures such as, but not limited to, access road, utilities, driveways, edge of asphalt, and/or structures.
- Proposed borehole locations.
- Topography of area for drainage.
- Should property corners be observed during the survey activity, those corners will be incorporated into the survey as a data point.

TTG will deploy a 1-man drone survey crew to collect topography of the refuse pile area for grading and channel design.

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**TASK III-C: GEOTECHNICAL INVESTIGATION**

Geotechnical investigation will be necessary for this project site.

a) **Highwall Reclamation**

A highwall has been identified at the project site. Exploratory drilling is required to determine the extents and depth of the proposed borrow area. This information will aid in determining the condition of the existing fill material around the base of the highwall. This proposal includes,

- Forty-nine (49) bore holes located throughout the approximate area of the proposed borrow area.
- A total of one thousand two hundred twenty-five (1,225) ft. of soil drilling. Rock coring is not included.

Standard penetration testing and sampling will be performed in each boring at 2.5 ft. intervals to a depth of 20 feet and then 5 feet intervals to refusal in bedrock or as directed. All boreholes will be backfilled with auger cuttings upon completion. All samples will be analyzed, and findings will be included in the Geotechnical report.

Areas disturbed during geotechnical investigation will be seeded and mulched upon completion of the investigation. Access roads and/or drill pads will be regraded to approximate existing grade.

b) **Geotechnical Analysis and Recommendations**

Laboratory testing will be performed on select samples from the highwall areas to aid in classifying the soil and determine their engineering properties. Planned lab testing includes moisture content, Atterberg liquid and plastic limits, and standard Proctor testing.

A final report will be prepared upon completion of the field, lab and engineering work including digital logs of the borings, results of the subsurface investigation in the highwall area, field observations, and topographic mapping used to analyze the site conditions, and recommendations for backfilling to reclaim the existing highwall.

**TASK III-D: ANALYSIS AND DESIGN**

After the surveying is complete, TTG will develop a conceptual plan. A meeting will be held with WVDEP onsite to review the design. If the design approach is agreed upon, TTG will proceed to final engineering design and development of construction drawings.

**TASK III-E: PREPARATION OF PLANS, SPECIFICATIONS, AND ENGINEERS ESTIMATE**

TTG will develop the preliminary design package and incorporate the applicable concept and ideas discussed during the conceptual design meeting. Deliverables will include engineering plans, specifications, and estimates. A detailed Engineer's Construction Cost Estimate (ECCE), Engineer's Construction Time Estimate (ECTE), and bid sheet will be developed. The preliminary design will be forwarded to the WVDEP for review and comments. After



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addressing these comments, TTG will submit the final design package and update the ECCE, ECTE, and bid sheet, if necessary.

This proposal includes a maximum of four (4) review sessions by the WVDEP. The reviews will occur at the following milestones: 30% design, 60% design, 80% design, and 100% design. Plans, design report, specifications, bid sheet, construction cost estimate, and construction time estimate will be submitted to the WVDEP electronically for each review milestone.

The follow is an anticipated project schedule based on the assumption of receiving a Purchase Order by July 1, 2023

Guyan River Refuse	Estimated Date Range	
NEPA and ESA	8/7/2024	8/20/2024
Realty	7/02/2024	7/03/2024
Survey and Geotech	7/08/2024	7/29/2024
Design	8/05/2024	9/02/2024
Pre-bid Meeting	3/31/2025	

This schedule does not include estimated dates for approved permits and/or time required to prepare and assign a pre-bid date for the project.

**TASK III-F: PERMITTING**

TTG will prepare and submit a Construction National Pollutant Discharge Elimination System Storm Water permit (NPDES). If necessary, TTG will address comments from the WVDEP associated with the application.

TTG will submit the required USACE permit for this project. If necessary, TTG will address comments from the USACE associated with the application.

TTG anticipates a WVDOH MM-109 permit will not be required for this project.

TTG does not anticipate additional permits for the project will be required. Should unforeseen conditions be discovered that requires a permit, TTG will notify the WVDEP prior to proceeding with permit application preparation. TTG anticipates WVDEP will consult other agencies, if required.

**TASK III-G: PRE-BID CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the pre-bid meeting.

- a. Work with the WVDEP to establish a pre-bid date.
- b. Provide pre-bid documents such as plans, specifications, and sign in sheet.
- c. Attend and conduct the pre-bid meeting onsite.
- d. Assist WVDEP with addendums, as needed.

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**TASK III-H: PRE-CONSTRUCTION CONFERENCE**

TTG will work with the WVDEP to prepare, schedule, and conduct the preconstruction meeting.

- a. Provide preconstruction documents such as plans, specifications, sign in sheet, and other required documents.
- b. Attend one (1) pre-construction conference onsite.

**TASK IV - CONSTRUCTION OVERSIGHT**

TTG will provide construction oversight for this project. This includes a Resident Project Representative (RPR) who will be on-site daily to observe construction activities. For this proposal, construction time is assumed to be eight (8) hours per day, five (5) days per week for forty (40) weeks. Mileage is assumed to be from Beaver, WV and a per diem of \$50.00. One site visit for the project manager/designer during construction to ensure the contractor is adhering to approved plans and specifications. TTG will conduct inspection reports and input the information into AMLNET. At the conclusion of construction, TTG will certify the project was built in accordance with the plans and specifications.

TTG will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

**TASK V - POST-CONSTRUCTION OVERSIGHT**

A TTG engineer will review the as-built plans provided by the contractor following construction, the construction oversight documentation and provide an as-built certification that project was completed according to plans, and/or with allowable exceptions.

TTG will provide a Resident Project Representative to monitor/inspect and document site conditions post-construction to verify project aspects are stable, operating as per the plans, and established.

- TTG has included three (3) site visits for post-construction oversight in this proposal.
- Should additional site visits be required or requested, those additional site visits can be included through change order.

Task V includes one (1) site visit for the project manager during final inspection.

**SECTION 3 COST ESTIMATE**

TTG will complete this project on a time and materials basis not to exceed the estimated costs provided in the Cost Summary without prior WVDEP approval. TTG will only invoice for time and expenses incurred.

Please note that the per diem rates provided in the proposal are a projection based on the Federal Per Diem Rates for the current year and project location. The calculated per diem costs included in this proposal are based on the anticipated number of days that will be required for site visits prior to construction, onsite RPR during construction, and site visits post construction. Per diem rates will be

**COST PROPOSAL**  
**2023 AML S4 CONTRACT**  
**CADBURY LAND DRAINAGE AND HIGHWALL**  
**KANAWHA COUNTY, WEST VIRGINIA**

used for required single day trips and days that will require lodging near the project site. The Per Diem rates are as follows:

- Per Diem (meal only; no lodging required) - \$50.00 per day.
- Per Diem w/ Lodging (meal & lodging) - \$175 per day.
- Mileage - \$0.70 per mile.

It is understood that TTG will ensure that all subcontractors are fully insured and have worker's compensation coverage. If you have any additional questions or need additional information, please let me know.

**COST PROPOSAL**  
**2023 AML S4 CONTRACT**  
**CADBURY LAND DRAINAGE AND HIGHWALL**  
**KANAWHA COUNTY, WEST VIRGINIA**

**SECTION 4 COST SUMMARY**

OFFICE OF ABANDONED MINE LANDS AND RECLAMATION  
APPLICATION AND CERTIFICATE FOR PAYMENT

TO: WV DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION  
601 57TH ST SE  
CHARLESTON, WV 25304

APPLICATION NUMBER: 1

PUR. ORD. NO.: CPO DEPxx\*xx

CONTRACT NAME: 2023 AML Contract S(4)

ATTN: AML Project Manager Name

VENDOR: The Thrasher Group Inc

ADDRESS: 600 White Oaks Blvd  
Bridgeport, WV 26330

REMIT ADDRESS: (Same) or type in different address as applies

OASIS VENDOR CUSTOMER NUMBER: (six digit number in OASIS, on CPO)

DATES OF SERVICE: FROM TO

DATE OF APPLICATION FOR PYMT:

COMMODITY LINE	PROJECT NO.	DESCRIPTION (Project Name)	AMOUNT DUE THIS INVOICE
1	EPAM24020	Branchland (Blankenship) Drainage	\$266,536.00
2	EPAM23052	Branchland (Crum) Drainage	\$307,581.50
3	EPAM23057	Branchland Portals - Route 10	\$111,942.00
4	EPAM23056	Branchland Portals	\$143,063.00
5	EPAM23069	Middle Fork (Adkins) Portals	\$145,982.00
6	EPAM23070	Cadbury Land Drainage and Highwall	\$642,266.00
7	EPAM16034	Belcher Hollow Auger Holes	\$596,485.00
8	EPAM23058	Guyan River Refuse	\$292,103.00
9	EPAM23059	Branchland - Hubball A	\$156,924.00
10	EPAM23071	Harmonds Creek Portals Phase II	\$448,932.00
11	EPAM23080	West Columbia - B Phase II	\$287,268.00
12	EPAM23076	Lanham (Workman) Portals	\$183,565.00
TOTAL AMOUNT DUE THIS INVOICE			\$3,582,647.50

ORIGINAL CONTRACT SUM \$0.00  
NET CHANGE BY CHANGE ORDERS \$0.00  
TOTAL CONTRACT SUM TO DATE \$0.00  
TOTAL BILLED TO DATE \$0.00  
LESS PREVIOUS PAYMENT TO DATE \$0.00  
CURRENT PAYMENT DUE \$0.00

INVOICE TYPE: REG. [ X ]  
NO. 1

ALL WORK IS COMPLETE AND THIS IS THE FINAL INVOICE ON THIS CONTRACT:  
YES [ ] NO [ X ]

SIGNATURES AND DATES:

REALTY REPRESENTATIVE

PLANNING REPRESENTATIVE

DESIGN REPRESENTATIVE

CONSTRUCTION REPRESENTATIVE

AML REPRESENTATIVE

% COMPLETE: \$0.00 #DIV/0!  
\$0.00

The undersigned Vendor certifies that the work covered by this Application for Payment has been completed in accordance with the Contract Documents and that the current payment shown herein is now due.

 9/19/2024  
VENDOR SIGNATURE AND DATE

Brian Knight  
VENDOR PRINTED NAME

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION												
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT												
						Application No.: 1		Page 2 of 6 Pages				
Purchase Order No.: CPO DEP:xx*xx												
Contract Name: 2023 AML Contract S(4)												
Commodity Line: 1												
Project Name: Branchland (Blankenship) Drainage												
SCHEDULE PER CONTRACT						WORK COMPLETED						
						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE		
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST	
TASK I: NEPA & ESA												
A	Agency Coordinations (including Office Work, AMLNET, etc.)	HR	16	\$185.00	\$2,960.00		\$0.00		\$0.00	0.0	\$0.00	
1	Project Manager / Senior Engineer	HR	20	\$120.00	\$2,400.00		\$0.00		\$0.00	0.0	\$0.00	
2	Engineer / Technical Scientist	HR	20	\$90.00	\$1,800.00		\$0.00		\$0.00	0.0	\$0.00	
3	Environmental Technician II	HR	12	\$110.00	\$1,320.00		\$0.00		\$0.00	0.0	\$0.00	
4	Planning / Technical Specialist	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
5	Per Diem											
B	Public Involvement (including Legal Ads, Public Hearings, Documents, Presentations, WVDEP's Website, etc.)	HR	8	\$185.00	\$1,480.00		\$0.00		\$0.00	0.0	\$0.00	
1	Project Manager / Senior Engineer	HR	0	\$120.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
2	Engineer / Technical Scientist	HR	0	\$90.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
3	Planning / Technical Specialist	Mile	0	\$110.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
4	Mileage	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
5	Per Diem											
C	Studies, Surveys & Mitigation Plans (as applicable) [Bat Habitat Survey, Water Sampling (1 round), Wetland/Stream Delineation & Report]	HR	30	\$185.00	\$5,550.00		\$0.00		\$0.00	0.0	\$0.00	
1	Project Manager / Senior Engineer	HR	62	\$120.00	\$7,440.00		\$0.00		\$0.00	0.0	\$0.00	
2	Engineer / Technical Scientist	HR	42	\$90.00	\$3,780.00		\$0.00		\$0.00	0.0	\$0.00	
3	Environmental Technician II	HR	16	\$110.00	\$1,760.00		\$0.00		\$0.00	0.0	\$0.00	
4	Planning / Technical Specialist	Mile	550	\$0.70	\$385.00		\$0.00		\$0.00	0.0	\$0.00	
5	Mileage	Day	2	\$50.00	\$100.00		\$0.00		\$0.00	0.0	\$0.00	
6	Per Diem											
C	CATEX / EA / FONSI / EIS	HR	16	\$185.00	\$2,960.00		\$0.00		\$0.00	0.0	\$0.00	
1	Project Manager / Senior Engineer	HR	20	\$120.00	\$2,400.00		\$0.00		\$0.00	0.0	\$0.00	
2	Engineer / Technical Scientist	HR	20	\$90.00	\$1,800.00		\$0.00		\$0.00	0.0	\$0.00	
3	Environmental Technician II	HR	8	\$110.00	\$880.00		\$0.00		\$0.00	0.0	\$0.00	
4	Planning / Technical Specialist	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
5	Per Diem											
					<b>SUBTOTAL PAGE 2 COST</b>	<b>\$37,015.00</b>	<b>SUBTOTAL PAGE 2 PREVIOUS</b>	<b>\$0.00</b>	<b>SUBTOTAL PAGE 2 THIS APPLICATION</b>	<b>\$0.00</b>	<b>SUBTOTAL PAGE 2 TO DATE</b>	<b>\$0.00</b>

Purchase Order No.: CPO DEP~~xx~~\*~~xx~~

Application No.: 1

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<b>Project Name:</b>	<b>Branchland (Blankenship) Drainage</b>
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**WORK COMPLETED**AML-7A (Revised 7/5/2023)

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 4 of 6 Pages

Project Name:	Branchland (Blankenship) Drainage
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THIS	AMOUNT DUE THIS	TOTAL BILLED TO DATE
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AML-7A (Revised 7/5/2023)



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION  
**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Purchase Order No.: CPO DEPxx\*xx

Contract Name: 2023 AML Contract S(4)

Commodity Line: 1

Project Name: Branchland (Blankenship) Drainage

Application No.: 1

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SCHEDULE PER CONTRACT						WORK COMPLETED					
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	PREVIOUS UNITS	PREVIOUS BILLED COST	THIS APPLICATION UNITS	AMOUNT DUE THIS APPLICATION COST	TOTAL BILLED TO DATE	
										UNITS	COST
<b>TASK III: DESIGN (CONTINUED)</b>											
<b>D</b>	<b>ANALYSIS AND DESIGN</b>										
1	Senior Project Manager	HR	2	\$210.00	\$420.00						
2	Project Manager	HR	30	\$190.00	\$5,700.00		\$0.00		\$0.00	0.0	\$0.00
3	Environmental Specialist	HR	0	\$120.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	Staff Engineer	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00
5	CADD Technician	HR	14	\$115.00	\$1,610.00		\$0.00		\$0.00	0.0	\$0.00
							\$0.00		\$0.00	0.0	\$0.00
<b>E</b>	<b>PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE</b>										
1	Senior Project Manager	HR	4	\$210.00	\$840.00						
2	Project Manager	HR	50	\$190.00	\$9,500.00		\$0.00		\$0.00	0.0	\$0.00
3	Environmental Specialist	HR	0	\$120.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	Staff Engineer	HR	60	\$115.00	\$6,900.00		\$0.00		\$0.00	0.0	\$0.00
5	CADD Technician	HR	80	\$115.00	\$9,200.00		\$0.00		\$0.00	0.0	\$0.00
							\$0.00		\$0.00	0.0	\$0.00
<b>F</b>	<b>PERMITTING [NPDES, MM-109]</b>										
1	Project Manager / Senior Engineer	HR	4	\$190.00	\$760.00						
2	Staff Engineer	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	0	\$0.70	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	CADD Technician	HR	8	\$115.00	\$920.00		\$0.00		\$0.00	0.0	\$0.00
							\$0.00		\$0.00	0.0	\$0.00
<b>G</b>	<b>PRE-BID CONFERENCE</b>										
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00		\$0.00		\$0.00	0.0	\$0.00
2	Mileage	Mile	230	\$0.70	\$161.00		\$0.00		\$0.00	0.0	\$0.00
3	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
							\$0.00		\$0.00	0.0	\$0.00
<b>H</b>	<b>PRE-CONSTRUCTION CONFERENCE</b>										
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00		\$0.00		\$0.00	0.0	\$0.00
2	Construction Inspector	HR	8	\$116.00	\$928.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	440	\$0.70	\$308.00		\$0.00		\$0.00	0.0	\$0.00
							\$0.00		\$0.00	0.0	\$0.00
					<b>SUBTOTAL PAGE 5 COST</b>	<b>\$44,937.00</b>	<b>SUBTOTAL PAGE 5 PREVIOUS</b>	<b>\$0.00</b>	<b>SUBTOTAL PAGE 5 THIS APPLICATION</b>	<b>\$0.00</b>	<b>SUBTOTAL PAGE 5 TO DATE</b>
											<b>\$0.00</b>

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION  
**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Application No.: 1 Page 6 of 6 Pages

Purchase Order No.: CPO DEPxx\*xx  
 Contract Name: 2023 AML Contract S(4)  
 Commodity Line: 1  
 Project Name: Branchland (Blankenship) Drainage

Commodity Line: 1						WORK COMPLETED					
Project Name: Branchland (Blankenship) Drainage						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
SCHEDULE PER CONTRACT											
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST
TASK IV: CONSTRUCTION OVERSIGHT											
A	Construction Inspection	HR	50	\$190.00	\$9,500.00		\$0.00		\$0.00	0.0	\$0.00
1	Project Manager / Senior Engineer										
2	Construction Inspector						\$0.00		\$0.00	0.0	\$0.00
a	Construction Inspection	HR	720	\$116.00	\$83,520.00		\$0.00		\$0.00	0.0	\$0.00
b	Office Work / AMLNET	HR	45	\$116.00	\$5,220.00		\$0.00		\$0.00	0.0	\$0.00
c	Mileage	Mile	2650	\$0.70	\$1,855.00		\$0.00		\$0.00	0.0	\$0.00
d	Per Diem	Day	90	\$50.00	\$4,500.00		\$0.00		\$0.00		
TASK V: POST-CONSTRUCTION OVERSIGHT											
A	FIELD VISITS / INSPECTIONS										
1	Project Manager / Senior Engineer	HR	20	\$190.00	\$3,800.00		\$0.00		\$0.00	0.0	\$0.00
2	Construction Inspector	HR	24	\$116.00	\$2,784.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	100	\$0.70	\$70.00		\$0.00		\$0.00		

**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Project Name:	N/A
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Page X of X Pages

THE GRAND TOTALS HERE COULD BE MADE A SEPARATE 'SHEET' SO TO SUM ALL PROJECT TOTALS  
EACH PROJECT COULD/SHOULD BE ON A SEPARATE 'SHEET', AND PAGE NUMBERS CORRECTED AS NEEDED

**WORK COMPLETED**

2023 AML		GRAND		GRAND TOTAL	GRAND TOTAL		GRAND TOTAL	
CONTRACT NAME: Contract S(4)		TOTAL COST	\$266,536.00	PREVIOUS	\$0.00	THIS	\$0.00	TO DATE
						APPLICATION		\$0.00

2023 AML  
CONTRACT NAME: Contract S(4)

GRAND TOTAL COST	\$266,536.00	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00
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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Purchase Order No.: CPO DEPxx*xx						Application No.: 1				Page 2 of 6 Pages		
Contract Name: 2023 AML Contract S(4)												
Commodity Line: 2						WORK COMPLETED						
Project Name: Branchland (Crum) Drainage						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE		
SCHEDULE PER CONTRACT												
TASK	DESCRIPTION		UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST
TASK 1: NEPA & ESA												
A		Agency Coordinations (including Office Work, AMLNET, etc.)										
	1	Project Manager / Senior Engineer	HR	18	\$185.00	\$3,330.00		\$0.00		\$0.00	0.0	\$0.00
	2	Engineer / Technical Scientist	HR	19	\$120.00	\$2,280.00		\$0.00		\$0.00	0.0	\$0.00
	3	Environmental Technician II	HR	19	\$90.00	\$1,710.00		\$0.00		\$0.00	0.0	\$0.00
	4	Planning / Technical Specialist	HR	12	\$110.00	\$1,320.00		\$0.00		\$0.00	0.0	\$0.00
	5	Per Diem	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
B		Public Involvement (including Legal Ads, Public Hearings, Documents, Presentations, WVDEP's Website, etc.)										
	1	Project Manager / Senior Engineer	HR	10	\$185.00	\$1,850.00		\$0.00		\$0.00	0.0	\$0.00
	2	Engineer / Technical Scientist	HR	0	\$120.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
	3	Environmental Technician II	HR	0	\$90.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
	4	Planning / Technical Specialist	HR	0	\$110.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
	5	Per Diem	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
C		Studies, Surveys & Mitigation Plans (as applicable) [Bat Habitate Survey, Water Sampling (1 round)]										
	1	Project Manager / Senior Engineer	HR	30	\$185.00	\$5,550.00		\$0.00		\$0.00	0.0	\$0.00
	2	Engineer / Technical Scientist	HR	43	\$120.00	\$5,160.00		\$0.00		\$0.00	0.0	\$0.00
	3	Environmental Technician II	HR	43	\$90.00	\$3,870.00		\$0.00		\$0.00	0.0	\$0.00
	4	Planning / Technical Specialist	HR	14	\$110.00	\$1,540.00						
	5	Mileage	Mile	550	\$0.70	\$385.00		\$0.00		\$0.00	0.0	\$0.00
	6	Per Diem	Day	5	\$50.00	\$250.00		\$0.00		\$0.00	0.0	\$0.00
C		CATEX / EA / FONSI / EIS										
	1	Project Manager / Senior Engineer	HR	20	\$185.00	\$3,700.00		\$0.00		\$0.00	0.0	\$0.00
	2	Engineer / Technical Scientist	HR	20	\$120.00	\$2,400.00		\$0.00		\$0.00	0.0	\$0.00
	3	Environmental Technician II	HR	20	\$90.00	\$1,800.00		\$0.00		\$0.00	0.0	\$0.00
	4	Planning / Technical Specialist	HR	8	\$110.00	\$880.00		\$0.00		\$0.00	0.0	\$0.00
	5	Per Diem	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: CPO DEPxx*xx						Application No.: 1		Page 4 of 6 Pages			
Contract Name: 2023 AML Contract S(4)											
Commodity Line: 2											
Project Name: Branchland (Crum) Drainage											
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
TASK III: DESIGN											
A	SITE RECONNAISSANCE AND INVESTIGATIONS										
1	Project Manager / Senior Engineer	HR	4	\$275.00	\$1,100.00		\$0.00		\$0.00	0.0	\$0.00
2	Staff Engineer	HR	18	\$190.00	\$3,420.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	230	\$0.70	\$161.00		\$0.00		\$0.00	0.0	\$0.00
4	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
B	SURVEYING & MAPPING										
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00		\$0.00		\$0.00	0.0	\$0.00
2	Staff Engineer	HR	0	\$115.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
3	Professional Surveyor / Chief Surveyor	HR	2	\$145.00	\$290.00		\$0.00		\$0.00	0.0	\$0.00
4	Survey Crew	HR	12	\$95.00	\$1,140.00		\$0.00		\$0.00	0.0	\$0.00
5	Senior Technician	HR	0	\$110.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
6	Topographic, Planimetric and Check Surveying	Acre	0	\$0.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
7	Mileage	Mile	470	\$0.70	\$329.00		\$0.00		\$0.00	0.0	\$0.00
8	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
C	GEOTECHNICAL INVESTIGATION										
1	Project Manager / Senior Engineer	HR	32	\$210.00	\$6,720.00		\$0.00		\$0.00	0.0	\$0.00
2	Geotechnical Engineer/Geologist	HR	20	\$185.00	\$3,700.00		\$0.00		\$0.00	0.0	\$0.00
3	Mobilization / Demobilization	LS	1	\$3,500.00	\$3,500.00		\$0.00		\$0.00	0.0	\$0.00
4	Soil Augering	LF	240	\$32.00	\$7,680.00		\$0.00		\$0.00	0.0	\$0.00
5	Rock Coring	LF	720	\$70.00	\$50,400.00		\$0.00		\$0.00	0.0	\$0.00
6	Heavy Equipment	HR	60	\$190.00	\$11,400.00		\$0.00		\$0.00	0.0	\$0.00
7	Piezometer Installation	LF	340	\$25.00	\$8,500.00		\$0.00		\$0.00	0.0	\$0.00
8	Drill Crew Per Diem	Day	14	\$370.00	\$5,180.00		\$0.00		\$0.00	0.0	\$0.00
9	Reclamation	LS	1	\$8,000.00	\$8,000.00		\$0.00		\$0.00	0.0	\$0.00
10	Geotechnical Investigation Report	LS	0	\$0.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
11	Mileage	Mile	200	\$0.70	\$140.00		\$0.00		\$0.00	0.0	\$0.00
12	Per Diem	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
				SUBTOTAL PAGE 4 COST	\$113,280.00	SUBTOTAL PAGE 4 PREVIOUS	\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 4 TO DATE	\$0.00



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Purchase Order No.: CPO DEPxx\*xx

Contract Name: 2023 AML Contract S(4)

Commodity Line: 2

Project Name: Branchland (Crum) Drainage

Application No.: 1

Page 5 of 6 Pages

SCHEDULE PER CONTRACT						WORK COMPLETED					
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	PREVIOUS UNITS	PREVIOUS BILLED COST	THIS APPLICATION UNITS	AMOUNT DUE THIS APPLICATION COST	TOTAL BILLED TO DATE	
										UNITS	COST
<b>TASK III: DESIGN (CONTINUED)</b>											
<b>D</b>	<b>ANALYSIS AND DESIGN</b>										
1	Senior Project Manager	HR	4	\$210.00	\$840.00						
2	Project Manager	HR	30	\$190.00	\$5,700.00		\$0.00		\$0.00	0.0	\$0.00
3	Environmental Specialist	HR	0	\$120.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	Staff Engineer	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00
5	CADD Technician	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00
									\$0.00	0.0	\$0.00
<b>E</b>	<b>PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE</b>										
1	Senior Project Manager	HR	4	\$210.00	\$840.00						
2	Project Manager	HR	50	\$190.00	\$9,500.00		\$0.00		\$0.00	0.0	\$0.00
3	Environmental Specialist	HR	0	\$120.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	Staff Engineer	HR	60	\$115.00	\$6,900.00		\$0.00		\$0.00	0.0	\$0.00
5	CADD Technician	HR	60	\$115.00	\$6,900.00		\$0.00		\$0.00	0.0	\$0.00
									\$0.00	0.0	\$0.00
<b>F</b>	<b>PERMITTING [NPDES]</b>										
1	Project Manager / Senior Engineer	HR	4	\$190.00	\$760.00						
2	Engineer / Environmental Scientist	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	0	\$0.70	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	CADD Technician	HR	8	\$115.00	\$920.00		\$0.00		\$0.00	0.0	\$0.00
									\$0.00	0.0	\$0.00
<b>G</b>	<b>PRE-BID CONFERENCE</b>										
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00						
2	Mileage	Mile	240	\$0.70	\$168.00		\$0.00		\$0.00	0.0	\$0.00
3	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
									\$0.00	0.0	\$0.00
<b>H</b>	<b>PRE-CONSTRUCTION CONFERENCE</b>										
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00						
2	Construction Inspector	HR	8	\$116.00	\$928.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	240	\$0.70	\$168.00		\$0.00		\$0.00	0.0	\$0.00
									\$0.00	0.0	\$0.00
					<b>SUBTOTAL PAGE 5 COST</b>		<b>\$43,614.00</b>	<b>SUBTOTAL PAGE 5 PREVIOUS</b>	<b>\$0.00</b>	<b>SUBTOTAL PAGE 5 THIS APPLICATION</b>	<b>\$0.00</b>
										<b>SUBTOTAL PAGE 5 TO DATE</b>	<b>\$0.00</b>

**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Page 6 of 6 Pages

<b>Project Name:</b>	<b>Branchland (Crum) Drainage</b>
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## TOTAL BILLED TO DATE

SUBTOTAL PAGE 6 COST	\$100,682.50	SUBTOTAL PAGE 6 PREVIOUS	\$0.00	SUBTOTAL PAGE 6 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 6 TO DATE	\$0.00
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AML-7A (Revised 7/5/2023)

### Branchland (Crum) Drainage



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: CPO DEPxx+xx  
 Contract Name: 2023 AML Contract S(4)  
 Commodity Line: N/A  
 Project Name: N/A

Application No.: 1

Page X of X Pages

THE GRAND TOTALS HERE COULD BE MADE A SEPARATE 'SHEET' SO TO SUM ALL PROJECT TOTALS  
 EACH PROJECT COULD/SHOULD BE ON A SEPARATE 'SHEET', AND PAGE NUMBERS CORRECTED AS NEEDED

SCHEDULE PER CONTRACT

WORK COMPLETED

TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE
						UNITS	COST	UNITS	COST	UNITS COST

AML-7 (Revised 7/5/2023)

CONTRACT NAME: 2023 AML Contract S(4)

GRAND TOTAL COST	\$307,581.50	GRAND TOTAL PREVIOUS		GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00
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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
						Application No.: 1		Page 2 of 6 Pages			
Purchase Order No.: CPO DEPxx*xx											
Contract Name: 2023 AML Contract S(4)											
Commodity Line: 3						WORK COMPLETED					
Project Name: Branchland Portals - Route 10											
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST
TASK I: NEPA & ESA											
A	Agency Coordinations (including Office Work, AMLNET, etc.)								\$0.00	0.0	\$0.00
1	Project Manager / Senior Engineer	HR	16	\$185.00	\$2,960.00		\$0.00		\$0.00	0.0	\$0.00
2	Engineer / Technical Scientist	HR	30	\$120.00	\$3,600.00		\$0.00		\$0.00	0.0	\$0.00
3	Planning / Technical Specialist	HR	12	\$110.00	\$1,320.00		\$0.00		\$0.00	0.0	\$0.00
4	Mileage	Mile	0	\$0.70	\$0.00		\$0.00		\$0.00	0.0	\$0.00
5	Per Diem	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
B	Public Involvement (including Legal Ads, Public Hearings, Documents, Presentations, WVDEP's Website, etc.)								\$0.00	0.0	\$0.00
1	Project Manager / Senior Engineer	HR	10	\$185.00	\$1,850.00		\$0.00		\$0.00	0.0	\$0.00
2	Engineer / Technical Scientist	HR	0	\$120.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
3	Planning / Technical Specialist	HR	0	\$110.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	Mileage	Mile	0	\$0.70	\$0.00		\$0.00		\$0.00	0.0	\$0.00
5	Per Diem	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
C	Studies, Surveys & Mitigation Plans (as applicable)[Bat Habitate Survey, Water Sampling (1 round), Wetland/Stream Delineation & Report]								\$0.00	0.0	\$0.00
1	Project Manager / Senior Engineer	HR	20	\$185.00	\$3,700.00		\$0.00		\$0.00	0.0	\$0.00
2	Engineer / Technical Scientist	HR	40	\$120.00	\$4,800.00		\$0.00		\$0.00	0.0	\$0.00
3	Planning / Technical Specialist	HR	4	\$110.00	\$440.00		\$0.00		\$0.00	0.0	\$0.00
4	Mileage	Mile	450	\$0.70	\$315.00		\$0.00		\$0.00	0.0	\$0.00
5	Per Diem	Day	2	\$50.00	\$100.00		\$0.00		\$0.00	0.0	\$0.00
C	CATEX / EA / FONSI / EIS								\$0.00	0.0	\$0.00
1	Project Manager / Senior Engineer	HR	10	\$185.00	\$1,850.00		\$0.00		\$0.00	0.0	\$0.00
2	Engineer / Technical Scientist	HR	16	\$120.00	\$1,920.00		\$0.00		\$0.00	0.0	\$0.00
3	Planning / Technical Specialist	HR	8	\$110.00	\$880.00		\$0.00		\$0.00	0.0	\$0.00
4	Mileage	Mile	0	\$0.70	\$0.00		\$0.00		\$0.00	0.0	\$0.00
5	Per Diem	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
SUBTOTAL PAGE 2 COST					\$23,735.00	SUBTOTAL PAGE 2 PREVIOUS		\$0.00	SUBTOTAL PAGE 2 THIS APPLICATION		\$0.00
									SUBTOTAL PAGE 2 TO DATE		\$0.00

# CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

<b>Contract Name:</b>	<b>2023 AML Contract S(4)</b>
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Application No.: 1

Page 3 of 6 Pages

### SCHEDULE PER CONTRACT

## PREVIOUS

PREVIOUS BILLED

**THIS**  
A DRY ICE CATERER

## AMOUNT DUE THIS

## TOTAL BILLED TO DATE

TASK			DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	APPLICATION	APPLICATION	TOTAL BILLED TO DATE	
										UNITS	COST	UNITS	COST
TASK II: REALTY													
A			Exploratory Rights of Entry (EROE)										
	1		Project Manager / Senior Engineer	HR	5	\$190.00	\$950.00						
	2		Realty Agent				\$0.00				\$0.00	0.0	\$0.00
		a	Courthouse Work	HR	1	\$175.00	\$175.00				\$0.00	0.0	\$0.00
		b	Field Reconnaissance / Landowner Correspondence	HR	1	\$175.00	\$175.00				\$0.00	0.0	\$0.00
		c	Office Work / AMLNET	HR	2	\$175.00	\$350.00				\$0.00	0.0	\$0.00
	3		Mileage	Mile	460	\$0.70	\$322.00				\$0.00	0.0	\$0.00
	4		Per Diem	Day	0		\$0.00				\$0.00	0.0	\$0.00
											\$0.00	0.0	\$0.00
B			Construction Rights of Entry (CROE)										
	1		Project Manager / Senior Engineer	HR	5	\$190.00	\$950.00						
	2		Realty Agent								\$0.00	0.0	\$0.00
		a	Courthouse Work	HR	3	\$175.00	\$525.00				\$0.00	0.0	\$0.00
		b	Field Reconnaissance / Landowner Correspondence	HR	0	\$175.00	\$0.00				\$0.00	0.0	\$0.00
		c	Office Work / AMLNET	HR	3.0	\$175.00	\$525.00				\$0.00	0.0	\$0.00
	3		Mileage	Mile	460	\$0.70	\$322.00				\$0.00	0.0	\$0.00
	4		Per Diem	Day	0	\$50.00	\$0.00				\$0.00	0.0	\$0.00
											\$0.00	0.0	\$0.00
C			Pre-Bid Conference										
	1		Realty Agent	HR	4	\$175.00	\$700.00						
	2		Mileage	Mile	230	\$0.70	\$161.00				\$0.00	0.0	\$0.00
											\$0.00	0.0	\$0.00
D			Pre-Construction Conference										
	1		Realty Agent	HR	4	\$175.00	\$700.00						
	2		Mileage	Mile	230	\$0.70	\$161.00				\$0.00	0.0	\$0.00
											\$0.00	0.0	\$0.00
SUBTOTAL PAGE 3 COST						\$6,016.00		SUBTOTAL PAGE 3 PREVIOUS	\$0.00	SUBTOTAL PAGE 3 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 3 TO DATE	\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: CPO DEPxx*xx						Application No.: 1		Page 4 of 6 Pages			
Contract Name: 2023 AML Contract S(4)											
Commodity Line: 3											
Project Name: Branchland Portals - Route 10											
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
TASK III: DESIGN											
A	SITE RECONNAISSANCE AND INVESTIGATIONS										
1	Senior Project Manager	HR	4	\$275.00	\$1,100.00		\$0.00		\$0.00	0.0	\$0.00
2	Project Manager / Senior Engineer	HR	11	\$190.00	\$2,090.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	230	\$0.70	\$161.00		\$0.00		\$0.00	0.0	\$0.00
4	Per Diem	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
B	SURVEYING & MAPPING										
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00		\$0.00		\$0.00	0.0	\$0.00
2	Staff Engineer	HR	0	\$115.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
3	Professional Surveyor / Chief Surveyor	HR	1.0	\$145.00	\$145.00		\$0.00		\$0.00	0.0	\$0.00
4	Survey Crew	HR	4	\$95.00	\$380.00		\$0.00		\$0.00	0.0	\$0.00
5	Senior Technician	HR	0	\$110.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
6	Topographic, Planimetric and Check Surveying	Acre	0	\$0.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
7	Mileage	Mile	230	\$0.70	\$161.00		\$0.00		\$0.00	0.0	\$0.00
8	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
C	GEOTECHNICAL INVESTIGATION		Not Required for this project								
				SUBTOTAL PAGE 4 COST	\$5,607.00	SUBTOTAL PAGE 4 PREVIOUS	\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 4 TO DATE	\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION  
**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Purchase Order No.: CPO DEPxx\*xx

Contract Name: 2023 AML Contract S(4)

Commodity Line: 3

Project Name: Branchland Portals - Route 10

Application No.: 1

Page 5 of 6 Pages

SCHEDULE PER CONTRACT						WORK COMPLETED					
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	PREVIOUS UNITS	PREVIOUS BILLED COST	THIS APPLICATION UNITS	AMOUNT DUE THIS APPLICATION COST	TOTAL BILLED TO DATE	
										UNITS	COST
<b>TASK III: DESIGN (CONTINUED)</b>											
<b>D</b>	<b>ANALYSIS AND DESIGN</b>										
1	Senior Project Manager	HR	2	\$210.00	\$420.00						
2	Project Manager	HR	11	\$190.00	\$2,090.00		\$0.00		\$0.00	0.0	\$0.00
3	Environmental Specialist	HR	0	\$120.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	Staff Engineer	HR	10	\$115.00	\$1,150.00		\$0.00		\$0.00	0.0	\$0.00
5	CADD Technician	HR	10	\$115.00	\$1,150.00		\$0.00		\$0.00	0.0	\$0.00
<b>E</b>	<b>PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE</b>										
1	Senior Project Manager	HR	1	\$210.00	\$210.00						
2	Project Manager	HR	30	\$190.00	\$5,700.00		\$0.00		\$0.00	0.0	\$0.00
3	Environmental Specialist	HR	0	\$120.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	Staff Engineer	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00
5	CADD Technician	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00
<b>F</b>	<b>PERMITTING [MM-109]</b>										
1	Project Manager / Senior Engineer	HR	2	\$190.00	\$380.00						
2	Staff Engineer	HR	6	\$115.00	\$690.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	0	\$0.70	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	CADD Technician	HR	0	\$115.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
<b>G</b>	<b>PRE-BID CONFERENCE</b>										
1	Project Manager / Senior Engineer	HR	6	\$190.00	\$1,140.00		\$0.00		\$0.00	0.0	\$0.00
2	Mileage	Mile	230	\$0.70	\$161.00		\$0.00		\$0.00	0.0	\$0.00
3	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
<b>H</b>	<b>PRE-CONSTRUCTION CONFERENCE</b>										
1	Project Manager / Senior Engineer	HR	6	\$190.00	\$1,140.00		\$0.00		\$0.00	0.0	\$0.00
2	Construction Inspector	HR	8	\$116.00	\$928.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	230	\$0.70	\$161.00		\$0.00		\$0.00	0.0	\$0.00
					<b>SUBTOTAL PAGE 5 COST</b>		<b>\$19,970.00</b>	<b>SUBTOTAL PAGE 5 PREVIOUS</b>	<b>\$0.00</b>	<b>SUBTOTAL PAGE 5 THIS APPLICATION</b>	<b>\$0.00</b>
									<b>\$0.00</b>	<b>SUBTOTAL PAGE 5 TO DATE</b>	<b>\$0.00</b>



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: CPO DEPxx*xx						Application No.: 1		Page 6 of 6 Pages			
Contract Name: 2023 AML Contract S(4)											
Commodity Line: 3											
Project Name: Branchland Portals - Route 10											
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST
TASK IV: CONSTRUCTION OVERSIGHT											
A	Construction Inspection										
1	Project Manager / Senior Engineer	HR	30	\$190.00	\$5,700.00		\$0.00		\$0.00	0.0	\$0.00
2	Construction Inspector										
a	Construction Inspection	HR	320	\$116.00	\$37,120.00		\$0.00		\$0.00	0.0	\$0.00
b	Office Work / AMLNET	HR	30	\$116.00	\$3,480.00		\$0.00		\$0.00	0.0	\$0.00
c	Mileage	Mile	3800	\$0.70	\$2,660.00		\$0.00		\$0.00	0.0	\$0.00
d	Per Diem	Day	20	\$50.00	\$1,000.00		\$0.00		\$0.00	0.0	\$0.00
TASK V: POST-CONSTRUCTION OVERSIGHT											
A	FIELD VISITS / INSPECTIONS										
1	Project Manager / Senior Engineer	HR	20	\$190.00	\$3,800.00		\$0.00		\$0.00	0.0	\$0.00
2	Construction Inspector	HR	24	\$116.00	\$2,784.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	100	\$0.70	\$70.00		\$0.00		\$0.00	0.0	\$0.00
SUBTOTAL PAGE 6 COST					\$56,614.00	SUBTOTAL PAGE 6 PREVIOUS		\$0.00	SUBTOTAL PAGE 6 THIS APPLICATION		\$0.00
SUBTOTAL PAGE 6 TO DATE						SUBTOTAL PAGE 6 TO DATE			SUBTOTAL PAGE 6 TO DATE		\$0.00
PROJECT TOTAL COST					\$111,942.00	PROJECT TOTAL PREVIOUS		\$0.00	PROJECT TOTAL THIS APPLICATION		\$0.00
PROJECT TOTAL TO DATE						PROJECT TOTAL TO DATE			PROJECT TOTAL TO DATE		\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION													
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT													
Purchase Order No.: CPO DEPxx*xx						Application No.: 1			Page X of X Pages				
Contract Name: 2023 AML Contract S(4)						THE GRAND TOTALS HERE COULD BE MADE A SEPARATE 'SHEET' SO TO SUM ALL PROJECT TOTALS							
Commodity Line: N/A						EACH PROJECT COULD/SHOULD BE ON A SEPARATE 'SHEET', AND PAGE NUMBERS CORRECTED AS NEEDED							
Project Name: N/A						WORK COMPLETED							
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST		
<div> <div>2023 AML</div> <div>CONTRACT NAME: Contract S(4)</div> </div>						GRAND TOTAL COST	\$111,942.00	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00

AML-7 (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION												
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT												
Purchase Order No.: CPO DEPxx*xx						Application No.: 1		Page 2 of 6 Pages				
Contract Name: 2023 AML Contract S(4)												
Commodity Line: 4												
Project Name: Branchland Portals												
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE		
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST	
<b>TASK I: NEPA &amp; ESA</b>												
A	Agency Coordinations (including Office Work, AMLNET, etc.)											
1	Project Manager / Senior Engineer	HR	20	\$185.00	\$3,700.00		\$0.00		\$0.00	0.0	\$0.00	
2	Engineer / Technical Scientist	HR	22	\$120.00	\$2,640.00		\$0.00		\$0.00	0.0	\$0.00	
3	Environmental Technician II	HR	22	\$90.00	\$1,980.00		\$0.00		\$0.00	0.0	\$0.00	
4	Planning / Technical Specialist	Mile	14	\$110.00	\$1,540.00		\$0.00		\$0.00	0.0	\$0.00	
5	Per Diem	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
B	Public Involvement (including Legal Ads, Public Hearings, Documents, Presentations, WVDEP's Website, etc.)											
1	Project Manager / Senior Engineer	HR	10	\$185.00	\$1,850.00		\$0.00		\$0.00	0.0	\$0.00	
2	Engineer / Technical Scientist	HR	0	\$120.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
3	Environmental Technician II	HR	0	\$90.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
4	Planning / Technical Specialist	Mile	0	\$110.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
5	Per Diem	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
C	Studies, Surveys & Mitigation Plans (as applicable) [Bat Habitate Survey, Water Sampling (1 round), Wetland/Stream Delineation & Report]											
1	Project Manager / Senior Engineer	HR	26	\$185.00	\$4,810.00		\$0.00		\$0.00	0.0	\$0.00	
2	Engineer / Technical Scientist	HR	46	\$120.00	\$5,520.00		\$0.00		\$0.00	0.0	\$0.00	
3	Environmental Technician II	HR	26	\$90.00	\$2,340.00		\$0.00		\$0.00	0.0	\$0.00	
	Planning / Technical Specialist	HR	10	\$110.00	\$1,100.00		\$0.00		\$0.00	0.0	\$0.00	
4	Mileage	Mile	560	\$0.70	\$392.00		\$0.00		\$0.00	0.0	\$0.00	
5	Per Diem	Day	2	\$50.00	\$100.00		\$0.00		\$0.00	0.0	\$0.00	
D	CATEX / EA / FONSI / EIS											
1	Project Manager / Senior Engineer	HR	8	\$185.00	\$1,480.00		\$0.00		\$0.00	0.0	\$0.00	
2	Engineer / Technical Scientist	HR	8	\$120.00	\$960.00		\$0.00		\$0.00	0.0	\$0.00	
3	Environmental Technician II	HR	8	\$90.00	\$720.00		\$0.00		\$0.00	0.0	\$0.00	
4	Planning / Technical Specialist	HR	8	\$110.00	\$880.00		\$0.00		\$0.00	0.0	\$0.00	
5	Per Diem	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
					<b>SUBTOTAL PAGE 2 COST</b>	<b>\$30,012.00</b>	<b>SUBTOTAL PAGE 2 PREVIOUS</b>	\$0.00	<b>SUBTOTAL PAGE 2 THIS APPLICATION</b>	\$0.00	<b>SUBTOTAL PAGE 2 TO DATE</b>	\$0.00



# CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 3 of 6 Pages

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AML-7A (Revised 7/5/2023)

## CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 4 of 6 Pages

<b>Project Name:</b>	<b>Branchland Portals</b>
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## TOTAL BILLED TO DATE

## TOTAL BILLED TO DATE

AML-7A (Revised 7/5/2023)

**\$0.00**

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION  
**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Purchase Order No.: CPO DEPxx\*xx

Contract Name: 2023 AML Contract S(4)

Commodity Line: 4

Project Name: Branchland Portals

Application No.: 1

Page 5 of 6 Pages

SCHEDULE PER CONTRACT						WORK COMPLETED					
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	PREVIOUS UNITS	PREVIOUS BILLED COST	THIS APPLICATION UNITS	AMOUNT DUE THIS APPLICATION COST	TOTAL BILLED TO DATE	
										UNITS	COST
<b>TASK III: DESIGN (CONTINUED)</b>											
<b>D</b>	<b>ANALYSIS AND DESIGN</b>										
1	Senior Project Manager	HR	4	\$210.00	\$840.00						
2	Project Manager	HR	20	\$190.00	\$3,800.00		\$0.00		\$0.00	0.0	\$0.00
3	Enviornmental Specialist	HR	0	\$120.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	Staff Engineer	HR	10	\$115.00	\$1,150.00		\$0.00		\$0.00	0.0	\$0.00
5	CADD Technician	HR	10	\$115.00	\$1,150.00		\$0.00		\$0.00	0.0	\$0.00
							\$0.00		\$0.00	0.0	\$0.00
<b>E</b>	<b>PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE</b>										
1	Senior Project Manager	HR	4	\$210.00	\$840.00						
2	Project Manager	HR	40	\$190.00	\$7,600.00		\$0.00		\$0.00	0.0	\$0.00
3	Enviornmental Specialist	HR	0	\$120.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	Staff Engineer	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00
5	CADD Technician	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00
							\$0.00		\$0.00	0.0	\$0.00
<b>F</b>	<b>PERMITTING [NPDES, MM109]</b>										
1	Project Manager / Senior Engineer	HR	10	\$190.00	\$1,900.00						
2	Staff Engineer	HR	40	\$115.00	\$4,600.00		\$0.00		\$0.00	0.0	\$0.00
3	Environmental Scientist	HR	20	\$105.00	\$2,100.00		\$0.00		\$0.00	0.0	\$0.00
4	CADD Technician	HR	16	\$115.00	\$1,840.00		\$0.00		\$0.00	0.0	\$0.00
							\$0.00		\$0.00	0.0	\$0.00
<b>G</b>	<b>PRE-BID CONFERENCE</b>										
1	Project Manager / Senior Engineer	HR	6	\$190.00	\$1,140.00		\$0.00		\$0.00	0.0	\$0.00
2	Mileage	Mile	230	\$0.70	\$161.00		\$0.00		\$0.00	0.0	\$0.00
3	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
							\$0.00		\$0.00	0.0	\$0.00
<b>H</b>	<b>PRE-CONSTRUCTION CONFERENCE</b>										
1	Project Manager / Senior Engineer	HR	6	\$190.00	\$1,140.00		\$0.00		\$0.00	0.0	\$0.00
2	Construction Inspector	HR	6	\$116.00	\$696.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	230	\$0.70	\$161.00		\$0.00		\$0.00	0.0	\$0.00
							\$0.00		\$0.00	0.0	\$0.00
					<b>SUBTOTAL PAGE 5 COST</b>		<b>\$33,768.00</b>	<b>SUBTOTAL PAGE 5 PREVIOUS</b>	<b>\$0.00</b>	<b>SUBTOTAL PAGE 5 THIS APPLICATION</b>	<b>\$0.00</b>
									<b>\$0.00</b>	<b>SUBTOTAL PAGE 5 TO DATE</b>	<b>\$0.00</b>

## CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 6 of 6 Pages

<b>Project Name:</b>	<b>Branchland Portals</b>
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THIS  
APPLICATION

## PREVIOUS

## PREVIOUS BILLED

THIS  
APPLICATION

AMOUNT DUE THIS APPLICATION

## TOTAL BILLED TO DATE

AML-7A (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION												
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT												
Purchase Order No.: CPO DEPxx*xx						Application No.: 1			Page X of X Pages			
Contract Name: 2023 AML Contract S(4)						THE GRAND TOTALS HERE COULD BE MADE A SEPARATE 'SHEET' SO TO SUM ALL PROJECT TOTALS EACH PROJECT COULD/SHOULD BE ON A SEPARATE 'SHEET', AND PAGE NUMBERS CORRECTED AS NEEDED						
Commodity Line: N/A												
Project Name: N/A												
SCHEDULE PER CONTRACT						WORK COMPLETED						
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE		
						UNITS	COST	UNITS	COST	UNITS	COST	
2023 AML						GRAND TOTAL COST	\$143,063.00	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE
CONTRACT NAME: Contract S(4)											\$0.00	

AML-7 (Revised 7/5/2023)

## CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 2 of 6 Pages

Project Name:	Middle Fork (Adkins) Portals
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## TOTAL BILLED TO DATE

AML-7A (Revised 7/5/2023)





WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: CPO DEPxx*xx						Application No.: 1		Page 4 of 6 Pages			
Contract Name: 2023 AML Contract S(4)											
Commodity Line: 5											
Project Name: Middle Fork (Adkins) Portals											
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	WORK COMPLETED		TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
TASK III: DESIGN											
A	SITE RECONNAISSANCE AND INVESTIGATIONS										
1	Senior Project Manager	HR	2	\$275.00	\$550.00		\$0.00		\$0.00	0.0	\$0.00
2	Project Manager	HR	15	\$190.00	\$2,850.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	290	\$0.70	\$203.00		\$0.00		\$0.00	0.0	\$0.00
4	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
B	SURVEYING & MAPPING										
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00		\$0.00		\$0.00	0.0	\$0.00
2	Staff Engineer	HR	5	\$115.00	\$575.00		\$0.00		\$0.00	0.0	\$0.00
3	Professional Surveyor / Chief Surveyor	HR	2	\$145.00	\$290.00		\$0.00		\$0.00	0.0	\$0.00
4	Survey Crew	HR	12	\$95.00	\$1,140.00		\$0.00		\$0.00	0.0	\$0.00
5	Senior Technician	HR	0	\$110.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
6	Topographic, Planimetric and Check Surveying	Acre	0	\$250.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
7	Mileage	Mile	290	\$0.70	\$203.00		\$0.00		\$0.00	0.0	\$0.00
8	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
C	GEOTECHNICAL INVESTIGATION	Not Required for this project									
				SUBTOTAL PAGE 4 COST	\$7,431.00	SUBTOTAL PAGE 4 PREVIOUS	\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 4 TO DATE	\$0.00



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION  
**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Purchase Order No.: CPO DEPxx\*xx

Contract Name: 2023 AML Contract S(4)

Commodity Line: 5

Project Name: Middle Fork (Adkins) Portals

Application No.: 1

Page 5 of 6 Pages

**SCHEDULE PER CONTRACT**

**WORK COMPLETED**

TASK		DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	PREVIOUS UNITS	PREVIOUS BILLED COST	APPLICATION UNITS	AMOUNT DUE THIS APPLICATION COST	TOTAL BILLED TO DATE UNITS COST	
TASK III: DESIGN (CONTINUED)												
D		ANALYSIS AND DESIGN										
	1	Senior Project Manager	HR	2	\$210.00	\$420.00						
	2	Project Manager	HR	20	\$190.00	\$3,800.00		\$0.00		\$0.00	0.0	\$0.00
	3	Enviornmental Specialist	HR	0	\$120.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
	4	Staff Engineer	HR	2	\$115.00	\$230.00		\$0.00		\$0.00	0.0	\$0.00
	5	CADD Technician	HR	4	\$115.00	\$460.00		\$0.00		\$0.00	0.0	\$0.00
								\$0.00		\$0.00	0.0	\$0.00
E		PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE										
	1	Senior Project Manager	HR	4	\$210.00	\$840.00						
	2	Project Manager	HR	30	\$190.00	\$5,700.00		\$0.00		\$0.00	0.0	\$0.00
	3	Enviornmental Specialist	HR	0	\$120.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
	4	Staff Engineer	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00
	5	CADD Technician	HR	30	\$115.00	\$3,450.00		\$0.00		\$0.00	0.0	\$0.00
								\$0.00		\$0.00	0.0	\$0.00
F		PERMITTING [NPDES, USACE, MM-109]										
	1	Project Manager / Senior Engineer	HR	15	\$190.00	\$2,850.00						
	2	Staff Engineer	HR	40	\$115.00	\$4,600.00		\$0.00		\$0.00	0.0	\$0.00
	3	Mileage	Mile	0	\$105.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
	4	CADD Technician	HR	30	\$115.00	\$3,450.00		\$0.00		\$0.00	0.0	\$0.00
								\$0.00		\$0.00	0.0	\$0.00
G		PRE-BID CONFERENCE										
	1	Project Manager / Senior Engineer	HR	5	\$190.00	\$950.00						
	2	Mileage	Mile	180	\$0.70	\$126.00		\$0.00		\$0.00	0.0	\$0.00
	3	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
								\$0.00		\$0.00	0.0	\$0.00
H		PRE-CONSTRUCTION CONFERENCE										
	1	Project Manager / Senior Engineer	HR	6	\$190.00	\$1,140.00						
	2	Construction Inspector	HR	6	\$116.00	\$696.00		\$0.00		\$0.00	0.0	\$0.00
	3	Mileage	Mile	180	\$0.70	\$126.00		\$0.00		\$0.00	0.0	\$0.00
								\$0.00		\$0.00	0.0	\$0.00
AML-7A (Revised 7/5/2023)					SUBTOTAL PAGE 5 COST	\$31,188.00	SUBTOTAL PAGE 5 PREVIOUS	\$0.00	SUBTOTAL PAGE 5 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 5 TO DATE	\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: CPO DEPxx*xx						Application No.: 1		Page 6 of 6 Pages			
Contract Name: 2023 AML Contract S(4)											
Commodity Line: 5											
Project Name: Middle Fork (Adkins) Portals											
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST
<b>TASK IV: CONSTRUCTION OVERSIGHT</b>											
A	Construction Inspection										
1	Project Manager / Senior Engineer	HR	20	\$190.00	\$3,800.00		\$0.00		\$0.00	0.0	\$0.00
2	Construction Inspector										
a	Construction Inspector	HR	320	\$116.00	\$37,120.00		\$0.00		\$0.00	0.0	\$0.00
b	Office Work / AMLNET	HR	32	\$116.00	\$3,712.00		\$0.00		\$0.00	0.0	\$0.00
c	Mileage	Mile	4000	\$0.70	\$2,800.00		\$0.00		\$0.00	0.0	\$0.00
d	Per Diem	Day	20	\$50.00	\$1,000.00		\$0.00		\$0.00	0.0	\$0.00
<b>TASK V: POST-CONSTRUCTION OVERSIGHT</b>											
A	FIELD VISITS / INSPECTIONS										
1	Project Manager / Senior Engineer	HR	20	\$190.00	\$3,800.00		\$0.00		\$0.00	0.0	\$0.00
2	Construction Inspector	HR	24	\$116.00	\$2,784.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	100	\$0.70	\$70.00		\$0.00		\$0.00	0.0	\$0.00
SUBTOTAL PAGE 6 COST					\$55,086.00	SUBTOTAL PAGE 6 PREVIOUS		\$0.00	SUBTOTAL PAGE 6 THIS APPLICATION		\$0.00
PROJECT TOTAL COST					\$145,982.00	PROJECT TOTAL PREVIOUS		\$0.00	PROJECT TOTAL THIS APPLICATION		\$0.00
									PROJECT TOTAL TO DATE		\$0.00

**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Project Name:	N/A
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Page X of X Pages

THE GRAND TOTALS HERE COULD BE MADE A SEPARATE 'SHEET' SO TO SUM ALL PROJECT TOTALS  
EACH PROJECT COULD/SHOULD BE ON A SEPARATE 'SHEET', AND PAGE NUMBERS CORRECTED AS NEEDED

**WORK COMPLETED**

2023 AML		GRAND TOTAL COST	\$145,982.00	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00
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2023 AML  
CONTRACT NAME: Contract S(4)

GRAND TOTAL COST	\$145,982.00	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00
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**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Page 2 of 6 Pages

Project Name:	Cadbury Land Drainage and Highwall
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## TOTAL BILLED TO DATE

## TOTAL BILLED TO DATE

### TASK 1: NEPA & ESA

[illegible]

C		Studies, Surveys & Mitigation Plans (as applicable) [Water Sampling (1 round), Wetland/Stream Delineation & Report]			\$0.00	\$0.00	0.0	\$0.00
1	Project Manager / Senior Engineer	HR	16	\$185.00	\$2,960.00	\$0.00	\$0.00	\$0.00
2	Engineer / Technical Scientist	HR	65	\$120.00	\$7,800.00	\$0.00	\$0.00	\$0.00
3	Environmental Technician II	HR	65	\$90.00	\$5,850.00	\$0.00	\$0.00	\$0.00
4	Planning / Technical Specialist	HR	12	\$110.00	\$1,320.00			
5	Mileage	Mile	410	\$0.70	\$287.00	\$0.00	\$0.00	\$0.00
6	Per Diem	Day	8	\$50.00	\$400.00	\$0.00	\$0.00	\$0.00

C		CATEX / EA / FONSI / EIS						\$0.00	\$0.00	0.0	\$0.00
1		Project Manager / Senior Engineer	HR	22	\$185.00	\$4,070.00		\$0.00	\$0.00	0.0	\$0.00
2		Engineer / Technical Scientist	HR	30	\$120.00	\$3,600.00		\$0.00	\$0.00	0.0	\$0.00
3		Environmental Technician II	HR	30	\$90.00	\$2,700.00		\$0.00	\$0.00	0.0	\$0.00
4		Planning / Technical Specialist	HR	10	\$110.00	\$1,100.00		\$0.00	\$0.00	0.0	\$0.00
5		Per Diem	Day	0	\$50.00	\$0.00		\$0.00	\$0.00	0.0	\$0.00

SUBTOTAL PAGE 2 COST	\$46,907.00	SUBTOTAL PAGE 2 PREVIOUS	\$0.00	SUBTOTAL PAGE 2 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 2 TO DATE	\$0.00
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**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION**

**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Application No.: 1

Page 4 of 6 Pages

Purchase Order No.: CPO DEPxx\*xx

Contract Name: 2023 AML Contract S(4)

Commodity Line: 6

Project Name: Cadbury Land Drainage and Highwall

**WORK COMPLETED**

SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
<b>TASK III: DESIGN</b>											
<b>A</b>	<b>SITE RECONNAISSANCE AND INVESTIGATIONS</b>										
1	Senior Project Manager	HR	4	\$210.00	\$840.00		\$0.00		\$0.00	0.0	\$0.00
2	Project Manager	HR	40	\$190.00	\$7,600.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	160	\$0.70	\$112.00		\$0.00		\$0.00	0.0	\$0.00
4	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
<b>B</b>	<b>SURVEYING &amp; MAPPING</b>										
1	Project Manager II	HR	50	\$190.00	\$9,500.00		\$0.00		\$0.00	0.0	\$0.00
2	GIS Technician II	HR	0	\$110.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
3	Professional Surveyor / Chief Surveyor	HR	5	\$165.00	\$825.00		\$0.00		\$0.00	0.0	\$0.00
4	Survey Crew	HR	40	\$95.00	\$3,800.00		\$0.00		\$0.00	0.0	\$0.00
5	CADD Technician II	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00
6	Topographic, Planimetric and Check Surveying	Acre	85	\$106.00	\$9,010.00		\$0.00		\$0.00	0.0	\$0.00
7	Mileage	Mile	320	\$0.70	\$224.00		\$0.00		\$0.00	0.0	\$0.00
8	Per Diem	Day	2	\$50.00	\$100.00		\$0.00		\$0.00	0.0	\$0.00
<b>C</b>	<b>GEOTECHNICAL INVESTIGATION</b>										
1	Project Manager II	HR	60	\$210.00	\$12,600.00		\$0.00		\$0.00	0.0	\$0.00
2	Geotechnical Engineer/Geologist	HR	42	\$185.00	\$7,770.00		\$0.00		\$0.00	0.0	\$0.00
3	Mobilization / Demobilization	LS	1	\$3,500.00	\$3,500.00		\$0.00		\$0.00	0.0	\$0.00
4	Soil Augering	LF	1225	\$32.00	\$39,200.00		\$0.00		\$0.00	0.0	\$0.00
5	Rock Coring	LF	0	\$0.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
6	Heavy Equipment	HR	90	\$190.00	\$17,100.00		\$0.00		\$0.00	0.0	\$0.00
7	Piezometer Installation	LF	0	\$0.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
8	Drill Crew Per Diem	Day	24	\$370.00	\$8,880.00		\$0.00		\$0.00	0.0	\$0.00
9	Reclamation	LS	1	\$10,000.00	\$10,000.00		\$0.00		\$0.00	0.0	\$0.00
10	Geotechnical Investigation Report	LS	1	\$15,000.00	\$15,000.00		\$0.00		\$0.00	0.0	\$0.00
11	Mileage	Mile	440	\$0.70	\$308.00		\$0.00		\$0.00	0.0	\$0.00
12	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
<b>SUBTOTAL PAGE 4 COST</b>					<b>\$148,769.00</b>	<b>SUBTOTAL PAGE 4 PREVIOUS</b>	<b>\$0.00</b>	<b>SUBTOTAL PAGE 4 THIS APPLICATION</b>	<b>\$0.00</b>	<b>SUBTOTAL PAGE 4 TO DATE</b>	<b>\$0.00</b>



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Purchase Order No.: CPO DEPxx\*xx

Contract Name: 2023 AML Contract S(4)

Commodity Line: 6

Project Name: Cadbury Land Drainage and Highwall

Application No.: 1

Page 5 of 6 Pages

**SCHEDULE PER CONTRACT**

**WORK COMPLETED**

SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE		
TASK	DESCRIPTION		UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST
TASK III: DESIGN (CONTINUED)												
D		ANALYSIS AND DESIGN										
	1	Senior Project Manager	HR	20	\$210.00	\$4,200.00						
	2	Project Manager	HR	150	\$190.00	\$28,500.00		\$0.00		\$0.00	0.0	\$0.00
	3	Enviornmental Specialist	HR	15	\$120.00	\$1,800.00		\$0.00		\$0.00	0.0	\$0.00
	4	Staff Engineer	HR	100	\$115.00	\$11,500.00		\$0.00		\$0.00	0.0	\$0.00
	5	CADD Technician	HR	80	\$115.00	\$9,200.00		\$0.00		\$0.00	0.0	\$0.00
								\$0.00		\$0.00	0.0	\$0.00
E		PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE										
	1	Senior Project Manager	HR	20	\$210.00	\$4,200.00						
	2	Project Manager	HR	120	\$190.00	\$22,800.00		\$0.00		\$0.00	0.0	\$0.00
	3	Enviornmental Specialist	HR	14	\$120.00	\$1,680.00		\$0.00		\$0.00	0.0	\$0.00
	4	Staff Engineer	HR	120	\$115.00	\$13,800.00		\$0.00		\$0.00	0.0	\$0.00
	5	CADD Technician	HR	120	\$115.00	\$13,800.00		\$0.00		\$0.00	0.0	\$0.00
								\$0.00		\$0.00	0.0	\$0.00
F		PERMITTING [NPDES, USACE]										
	1	Project Manager	HR	65	\$190.00	\$12,350.00						
	2	Staff Engineer	HR	90	\$115.00	\$10,350.00		\$0.00		\$0.00	0.0	\$0.00
	3	Mileage	Mile	0	\$0.70	\$0.00		\$0.00		\$0.00	0.0	\$0.00
	4	CADD Technician	HR	80	\$115.00	\$9,200.00		\$0.00		\$0.00	0.0	\$0.00
										\$0.00	0.0	\$0.00
G		PRE-BID CONFERENCE										
	1	Project Manager / Senior Engineer	HR	10	\$190.00	\$1,900.00						
	2	Mileage	Mile	160	\$0.70	\$112.00		\$0.00		\$0.00	0.0	\$0.00
	3	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
										\$0.00	0.0	\$0.00
H		PRE-CONSTRUCTION CONFERENCE										
	1	Project Manager / Senior Engineer	HR	10	\$190.00	\$1,900.00						
	2	Construction Inspector	HR	10	\$116.00	\$1,160.00		\$0.00		\$0.00	0.0	\$0.00
	3	Mileage	Mile	160	\$0.70	\$112.00		\$0.00		\$0.00	0.0	\$0.00
								\$0.00		\$0.00	0.0	\$0.00
					SUBTOTAL PAGE 5 COST	\$148,614.00	SUBTOTAL PAGE 5 PREVIOUS	\$0.00	SUBTOTAL PAGE 5 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 5 TO DATE	\$0.00
AML-7A (Revised 7/5/2023)												





WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
<b>CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT</b>											
Purchase Order No.: CPO DEPxx*xx						Application No.: 1			Page X of X Pages		
Contract Name: 2023 AML Contract S(4)						THE GRAND TOTALS HERE COULD BE MADE A SEPARATE 'SHEET' SO TO SUM ALL PROJECT TOTALS					
Commodity Line: N/A						EACH PROJECT COULD/SHOULD BE ON A SEPARATE 'SHEET', AND PAGE NUMBERS CORRECTED AS NEEDED					
Project Name: N/A						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST

  

AML-7 (Revised 7/5/2023)
 

2023 AML  
 CONTRACT NAME: Contract S(4)

GRAND TOTAL COST	\$642,266.00	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00
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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: CPO DEPxx*xx						Application No.: 1			Page 2 of 6 Pages		
Contract Name: 2023 AML Contract S(4)											
Commodity Line: 7											
Project Name: Belcher Hollow Anger Holes						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION					UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST
TASK I: NEPA & ESA											
A		Agency Coordinations (including Office Work, AMLNET, etc.)									
	1	Project Manager / Senior Engineer				HR	24	\$185.00	\$4,440.00		\$0.00
	2	Engineer / Technical Scientist				HR	24	\$120.00	\$2,880.00		\$0.00
	3	Environmental Technician II				HR	24	\$90.00	\$2,160.00		\$0.00
	4	Planning / Technical Specialist				HR	16	\$110.00	\$1,760.00		\$0.00
	5	Per Diem				Day	0	\$50.00	\$0.00		\$0.00
B		Public Involvement (including Legal Ads, Public Hearings, Documents, Presentations, WVDEP's Website, etc.)									
	1	Project Manager / Senior Engineer				HR	10	\$185.00	\$1,850.00		\$0.00
	2	Engineer / Technical Scientist				HR	0	\$120.00	\$0.00		\$0.00
	3	Environmental Technician II				HR	0	\$90.00	\$0.00		\$0.00
	4	Planning / Technical Specialist				HR	0	\$110.00	\$0.00		\$0.00
	5	CADD Technician				HR	0	\$115.00	\$0.00		\$0.00
C		Studies, Surveys & Mitigation Plans (as applicable) [Bat Habitate Survey, Water Sampling (1 round), Wetland/Stream Delineation & Report]									
	1	Project Manager / Senior Engineer				HR	20	\$185.00	\$3,700.00		\$0.00
	2	Engineer / Technical Scientist				HR	100	\$120.00	\$12,000.00		\$0.00
	3	Environmental Technician II				HR	100	\$90.00	\$9,000.00		\$0.00
	4	Planning / Technical Specialist				HR	16	\$110.00	\$1,760.00		\$0.00
	5	Mileage				Mile	600	\$0.70	\$420.00		\$0.00
	6	Per Diem				Day	2	\$50.00	\$100.00		\$0.00
D		CATEX / EA / FONSI / EIS									
	1	Project Manager / Senior Engineer				HR	16	\$185.00	\$2,960.00		\$0.00
	2	Engineer / Technical Scientist				HR	24	\$120.00	\$2,880.00		\$0.00
	3	Environmental Technician II				HR	24	\$90.00	\$2,160.00		\$0.00
	4	Planning / Technical Specialist				HR	10	\$110.00	\$1,100.00		\$0.00
	5	Per Diem				Day	0	\$50.00	\$0.00		\$0.00



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION  
**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Purchase Order No.: CPO DEPxx*xx						Application No.: 1		Page 4 of 6 Pages				
Contract Name: 2023 AML Contract S(4)						WORK COMPLETED						
Commodity Line: 7												
Project Name: Belcher Hollow Auger Holes												
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE		
TASK	DESCRIPTION			UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
TASK III: DESIGN												
A		SITE RECONNAISSANCE AND INVESTIGATIONS										
	1	Senior Project Manager			HR	8	\$275.00	\$2,200.00		\$0.00	0.0	\$0.00
	2	Project Manager			HR	31	\$190.00	\$5,890.00		\$0.00	0.0	\$0.00
	3	Mileage			Mile	160	\$0.70	\$112.00		\$0.00	0.0	\$0.00
	4	Per Diem			Day	1	\$50.00	\$50.00		\$0.00	0.0	\$0.00
B		SURVEYING & MAPPING										
	1	Project Manager / Senior Engineer			HR	30	\$190.00	\$5,700.00		\$0.00	0.0	\$0.00
	2	Staff Engineer			HR	0	\$115.00	\$0.00		\$0.00	0.0	\$0.00
	3	Professional Surveyor / Chief Surveyor			HR	5	\$145.00	\$725.00		\$0.00	0.0	\$0.00
	4	Survey Crew			HR	30	\$95.00	\$2,850.00		\$0.00	0.0	\$0.00
	5	Senior Technician			HR	20	\$110.00	\$2,200.00		\$0.00	0.0	\$0.00
	6	Topographic, Planimetric and Check Surveying			Acre	20	\$250.00	\$5,000.00		\$0.00	0.0	\$0.00
	7	Mileage			Mile	360	\$0.70	\$252.00		\$0.00	0.0	\$0.00
	8	Per Diem			Day	2	\$50.00	\$100.00		\$0.00	0.0	\$0.00
C		GEOTECHNICAL INVESTIGATION										
	1	Project Manager / Senior Engineer			HR	34	\$210.00	\$7,140.00		\$0.00	0.0	\$0.00
	2	Geotechnical Engineer/Geologist			HR	36	\$185.00	\$6,660.00		\$0.00	0.0	\$0.00
	3	Mobilization / Demobilization			LS	1	\$3,500.00	\$3,500.00		\$0.00	0.0	\$0.00
	4	Soil Augering			LF	615	\$32.00	\$19,680.00		\$0.00	0.0	\$0.00
	5	Rock Coring			LF	930	\$70.00	\$65,100.00		\$0.00	0.0	\$0.00
	6	Heavy Equipment			HR	80	\$190.00	\$15,200.00		\$0.00	0.0	\$0.00
	7	Piezometer Installation			LF	400	\$25.00	\$10,000.00		\$0.00	0.0	\$0.00
	8	Drill Crew Per Diem			Day	22	\$370.00	\$8,140.00		\$0.00	0.0	\$0.00
	9	Reclamation			LS	1	\$5,000.00	\$5,000.00		\$0.00	0.0	\$0.00
	10	Geotechnical Investigation Report			LS	1	\$10,500.00	\$10,500.00		\$0.00	0.0	\$0.00
	11	Mileage			Mile	200	\$0.70	\$140.00		\$0.00	0.0	\$0.00
	12	Per Diem			Day	1	\$50.00	\$50.00		\$0.00	0.0	\$0.00
SUBTOTAL PAGE 4 COST						\$176,189.00	SUBTOTAL PAGE 4 PREVIOUS	\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 4 TO DATE	\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION  
**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Purchase Order No.: CPO DEPxx*xx						Application No.: 1						Page 5 of 6 Pages	
Contract Name: 2023 AML Contract S(4)													
Commodity Line: 7													
Project Name: Belcher Hollow Auger Holes													
SCHEDULE PER CONTRACT						WORK COMPLETED							
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
						UNITS	COST	UNITS	COST	UNITS	COST		
TASK III: DESIGN (CONTINUED)													
D	ANALYSIS AND DESIGN												
	1	Senior Project Manager	HR	8	\$190.00	\$1,520.00							
	2	Project Manager	HR	40	\$185.00	\$7,400.00	\$0.00		\$0.00	0.0	\$0.00		
	3	Enviornmental Specialist	HR	4	\$120.00	\$480.00	\$0.00		\$0.00	0.0	\$0.00		
	4	Staff Engineer	HR	40	\$115.00	\$4,600.00	\$0.00		\$0.00	0.0	\$0.00		
	5	CADD Technician	HR	40	\$115.00	\$4,600.00	\$0.00		\$0.00	0.0	\$0.00		
E	PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE												
	1	Senior Project Manager	HR	8	\$190.00	\$1,520.00	\$0.00		\$0.00	0.0	\$0.00		
	2	Project Manager	HR	100	\$185.00	\$18,500.00	\$0.00		\$0.00	0.0	\$0.00		
	3	Enviornmental Specialist	HR	8	\$120.00	\$960.00	\$0.00		\$0.00	0.0	\$0.00		
	4	Staff Engineer	HR	184	\$115.00	\$21,160.00	\$0.00		\$0.00	0.0	\$0.00		
	5	CADD Technician	HR	184	\$115.00	\$21,160.00	\$0.00		\$0.00	0.0	\$0.00		
F	PERMITTING [NPDES]												
	1	Project Manager / Senior Engineer	HR	10	\$190.00	\$1,900.00	\$0.00		\$0.00	0.0	\$0.00		
	2	Staff Engineer	HR	40	\$115.00	\$4,600.00	\$0.00		\$0.00	0.0	\$0.00		
	3	Mileage	Mile	0	\$0.70	\$0.00	\$0.00		\$0.00	0.0	\$0.00		
	4	CADD Technician	HR	30	\$115.00	\$3,450.00	\$0.00		\$0.00	0.0	\$0.00		
G	PRE-BID CONFERENCE												
	1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00	\$0.00		\$0.00	0.0	\$0.00		
	2	Mileage	Mile	180	\$0.70	\$126.00	\$0.00		\$0.00	0.0	\$0.00		
	3	Per Diem	Day	1	\$50.00	\$50.00	\$0.00		\$0.00	0.0	\$0.00		
H	PRE-CONSTRUCTION CONFERENCE												
	1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00	\$0.00		\$0.00	0.0	\$0.00		
	2	Construction Inspector	HR	8	\$116.00	\$928.00	\$0.00		\$0.00	0.0	\$0.00		
	3	Mileage	Mile	180	\$0.70	\$126.00	\$0.00		\$0.00	0.0	\$0.00		

**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Page 6 of 6 Pages

Project Name:	Belcher Hollow Auger Holes
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PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE
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SUBTOTAL PAGE 6 COST	\$261,026.00	SUBTOTAL PAGE 6 PREVIOUS	\$0.00	SUBTOTAL PAGE 6 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 6 TO DATE	\$0.00
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### Belcher Hollow Auger Holes

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION													
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT													
Purchase Order No.: CPO DEPxx*xx						Application No.: 1			Page X of X Pages				
Contract Name: 2023 AML Contract S(4)						THE GRAND TOTALS HERE COULD BE MADE A SEPARATE 'SHEET' SO TO SUM ALL PROJECT TOTALS							
Commodity Line: N/A						EACH PROJECT COULD/SHOULD BE ON A SEPARATE 'SHEET', AND PAGE NUMBERS CORRECTED AS NEEDED							
Project Name: N/A						WORK COMPLETED							
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST		
<div> <div>2023 AML</div> <div>CONTRACT NAME: Contract S(4)</div> </div>						GRAND TOTAL COST	\$596,485.00	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00

AML-7 (Revised 7/5/2023)



## CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 2 of 6 Pages

Project Name:	Guyan River Refuse
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AML-7A (Revised 7/5/2023)



**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

<b>Project Name:</b>	<b>Guyan River Refuse</b>
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Page 3 of 6 Pages

**WORK COMPLETED**AML-7A (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Purchase Order No.: CPO DEPxx*xx						Application No.: 1				Page 4 of 6 Pages	
Contract Name: 2023 AML Contract S(4)											
Commodity Line: 8						WORK COMPLETED					
Project Name: Guyan River Refuse											
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
TASK III: DESIGN											
A	SITE RECONNAISSANCE AND INVESTIGATIONS										
1	Senior Project Manager	HR	3	\$275.00	\$825.00		\$0.00		\$0.00	0.0	\$0.00
2	Project Manager	HR	30	\$190.00	\$5,700.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	240	\$0.70	\$168.00		\$0.00		\$0.00	0.0	\$0.00
4	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
B	SURVEYING & MAPPING										
1	Project Manager / Senior Engineer	HR	20	\$190.00	\$3,800.00		\$0.00		\$0.00	0.0	\$0.00
2	Staff Engineer	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00
3	Professional Surveyor / Chief Surveyor	HR	2	\$145.00	\$290.00		\$0.00		\$0.00	0.0	\$0.00
4	Survey Crew	HR	20	\$95.00	\$1,900.00		\$0.00		\$0.00	0.0	\$0.00
5	Senior Technician	HR	1	\$110.00	\$110.00		\$0.00		\$0.00	0.0	\$0.00
6	Topographic, Planimetric and Check Surveying	Acre	10	\$250.00	\$2,500.00		\$0.00		\$0.00	0.0	\$0.00
7	Mileage	Mile	240	\$0.70	\$168.00		\$0.00		\$0.00	0.0	\$0.00
8	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
C	GEOTECHNICAL INVESTIGATION										
1	Project Manager / Senior Engineer	HR	20	\$210.00	\$4,200.00		\$0.00		\$0.00	0.0	\$0.00
2	Geotechnical Engineer/Geologist	HR	14	\$185.00	\$2,590.00		\$0.00		\$0.00	0.0	\$0.00
3	Mobilization / Demobilization	LS	1	\$3,500.00	\$3,500.00		\$0.00		\$0.00	0.0	\$0.00
4	Soil Augering	LF	400	\$32.00	\$12,800.00		\$0.00		\$0.00	0.0	\$0.00
5	Rock Coring	LF	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
6	Heavy Equipment	HR	40	\$190.00	\$7,600.00		\$0.00		\$0.00	0.0	\$0.00
7	Piezometer Installation	LF	0	\$0.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
8	Drill Crew Per Diem	Day	8	\$370.00	\$2,960.00		\$0.00		\$0.00	0.0	\$0.00
9	Reclamation	LS	1	\$4,000.00	\$4,000.00		\$0.00		\$0.00	0.0	\$0.00
10	Geotechnical Investigation Report	LS	0	\$0.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
11	Mileage	Mile	200	\$0.70	\$140.00		\$0.00		\$0.00	0.0	\$0.00
12	Per Diem	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
SUBTOTAL PAGE 4 COST					\$55,651.00	SUBTOTAL PAGE 4 PREVIOUS	\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 4 TO DATE	\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

<b>Purchase Order No.:</b> CPO DEPxx*xx						<b>Application No.:</b> 1		<b>Page 5 of 6 Pages</b>				
<b>Contract Name:</b> 2023 AML Contract S(4)												
<b>Commodity Line:</b> 8												
<b>Project Name:</b> Guyan River Refuse												
SCHEDULE PER CONTRACT						WORK COMPLETED						
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	PREVIOUS UNITS	PREVIOUS BILLED COST	THIS APPLICATION UNITS	AMOUNT DUE THIS APPLICATION COST	TOTAL BILLED TO DATE UNITS	TOTAL BILLED TO DATE COST	
<b>TASK III: DESIGN (CONTINUED)</b>												
<b>D</b>	<b>ANALYSIS AND DESIGN</b>											
1	Senior Project Manager	HR	5	\$210.00	\$1,050.00		\$0.00		\$0.00	0.0	\$0.00	
2	Project Manager	HR	20	\$190.00	\$3,800.00		\$0.00		\$0.00	0.0	\$0.00	
3	Envirnornental Specialist	HR	2	\$120.00	\$240.00		\$0.00		\$0.00	0.0	\$0.00	
4	Staff Engineer	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00	
5	CADD Technician	HR	30	\$115.00	\$3,450.00		\$0.00		\$0.00	0.0	\$0.00	
<b>E</b>	<b>PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE</b>											
1	Senior Project Manager	HR	8	\$210.00	\$1,680.00		\$0.00		\$0.00	0.0	\$0.00	
2	Project Manager	HR	40	\$190.00	\$7,600.00		\$0.00		\$0.00	0.0	\$0.00	
3	Envirnornental Specialist	HR	2	\$120.00	\$240.00		\$0.00		\$0.00	0.0	\$0.00	
4	Staff Engineer	HR	80	\$115.00	\$9,200.00		\$0.00		\$0.00	0.0	\$0.00	
5	CADD Technician	HR	80	\$115.00	\$9,200.00		\$0.00		\$0.00	0.0	\$0.00	
<b>F</b>	<b>PERMITTING [ NPDES]</b>											
1	Project Manager / Senior Engineer	HR	15	\$190.00	\$2,850.00		\$0.00		\$0.00	0.0	\$0.00	
2	Engineer / Environmental Scientist	HR	30	\$115.00	\$3,450.00		\$0.00		\$0.00	0.0	\$0.00	
3	Mileage	Mile	0	\$105.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
4	CADD Technician	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00	
<b>G</b>	<b>PRE-BID CONFERENCE</b>											
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00		\$0.00		\$0.00	0.0	\$0.00	
2	Mileage	Mile	240	\$0.70	\$168.00		\$0.00		\$0.00	0.0	\$0.00	
3	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00	
<b>H</b>	<b>PRE-CONSTRUCTION CONFERENCE</b>											
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00		\$0.00		\$0.00	0.0	\$0.00	
2	Construction Inspector	HR	8	\$116.00	\$928.00		\$0.00		\$0.00	0.0	\$0.00	
3	Mileage	Mile	240	\$0.70	\$168.00		\$0.00		\$0.00	0.0	\$0.00	
					<b>SUBTOTAL PAGE 5 COST</b>	\$51,714.00	<b>SUBTOTAL PAGE 5 PREVIOUS</b>	\$0.00	<b>SUBTOTAL PAGE 5 THIS APPLICATION</b>	\$0.00	<b>SUBTOTAL PAGE 5 TO DATE</b>	\$0.00

## CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 6 of 6 Pages

<b>Project Name:</b>	<b>Guyan River Refuse</b>
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**WORK COMPLETED**

SUBTOTAL PAGE 6 COST	\$133,800.00	SUBTOTAL PAGE 6 PREVIOUS	\$0.00	SUBTOTAL PAGE 6 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 6 TO DATE	\$0.00
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AML-7A (Revised 7/5/2023)

### Guyan River Refuse

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION													
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT													
Purchase Order No.: CPO DEPxx*xx						Application No.: 1			Page X of X Pages				
Contract Name: 2023 AML Contract S(4)						THE GRAND TOTALS HERE COULD BE MADE A SEPARATE 'SHEET' SO TO SUM ALL PROJECT TOTALS EACH PROJECT COULD/SHOULD BE ON A SEPARATE 'SHEET', AND PAGE NUMBERS CORRECTED AS NEEDED							
Commodity Line: N/A													
Project Name: N/A													
SCHEDULE PER CONTRACT						WORK COMPLETED							
TASK		DESCRIPTION		UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
								UNITS	COST	UNITS	COST	UNITS	COST
2023 AML						GRAND TOTAL COST	\$292,103.00	GRAND TOTAL PREVIOUS		GRAND TOTAL THIS APPLICATION		GRAND TOTAL TO DATE	\$0.00
CONTRACT NAME: Contract S(4)									\$0.00		\$0.00		\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION														
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT														
Purchase Order No.: CPO DEPxx*xx						Application No.: 1			Page 2 of 6 Pages					
Contract Name: 2023 AML Contract S(4)						WORK COMPLETED								
Commodity Line: 9														
Project Name: Branchland - Hubball A						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE				
SCHEDULE PER CONTRACT														
TASK	DESCRIPTION				UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST		
TASK I: NEPA & ESA														
A		Agency Coordinations (including Office Work, AMLNET, etc.)												
	1	Project Manager / Senior Engineer				HR	14	\$185.00	\$2,590.00		\$0.00	\$0.00	0.0	\$0.00
	2	Engineer / Technical Scientist				HR	14	\$120.00	\$1,680.00		\$0.00	\$0.00	0.0	\$0.00
	3	Environmental Technician II				HR	14	\$90.00	\$1,260.00		\$0.00	\$0.00	0.0	\$0.00
	4	Planning / Technical Specialist				HR	10	\$110.00	\$1,100.00		\$0.00	\$0.00	0.0	\$0.00
	5	Per Diem				Day	0	\$50.00	\$0.00		\$0.00	\$0.00	0.0	\$0.00
B		Public Involvement (including Legal Ads, Public Hearings, Documents, Presentations, WVDEP's Website, etc.)												
	1	Project Manager / Senior Engineer				HR	8	\$185.00	\$1,480.00		\$0.00	\$0.00	0.0	\$0.00
	2	Engineer / Technical Scientist				HR	0	\$120.00	\$0.00		\$0.00	\$0.00	0.0	\$0.00
	3	Environmental Technician II				HR	0	\$90.00	\$0.00		\$0.00	\$0.00	0.0	\$0.00
	4	Planning / Technical Specialist				HR	0	\$110.00	\$0.00		\$0.00	\$0.00	0.0	\$0.00
	5	Per Diem				Day	0	\$50.00	\$0.00		\$0.00	\$0.00	0.0	\$0.00
C		Studies, Surveys & Mitigation Plans (as applicable) [Bat Habitate Survey, Water Sampling (1 round), Wetland/Stream Delineation & Report]												
	1	Project Manager / Senior Engineer				HR	30	\$185.00	\$5,550.00		\$0.00	\$0.00	0.0	\$0.00
	2	Engineer / Technical Scientist				HR	58	\$120.00	\$6,960.00		\$0.00	\$0.00	0.0	\$0.00
	3	Environmental Technician II				HR	47	\$90.00	\$4,230.00		\$0.00	\$0.00	0.0	\$0.00
	4	Planning / Technical Specialist				HR	14	\$110.00	\$1,540.00					
	5	Mileage				Mile	650	\$0.70	\$455.00		\$0.00	\$0.00	0.0	\$0.00
	6	Per Diem				Day	2	\$50.00	\$100.00		\$0.00	\$0.00	0.0	\$0.00
C		CATEX / EA / FONSI / EIS												
	1	Project Manager / Senior Engineer				HR	16	\$185.00	\$2,960.00		\$0.00	\$0.00	0.0	\$0.00
	2	Engineer / Technical Scientist				HR	25	\$120.00	\$3,000.00		\$0.00	\$0.00	0.0	\$0.00
	3	Environmental Technician II				HR	25	\$90.00	\$2,250.00		\$0.00	\$0.00	0.0	\$0.00
	4	Planning / Technical Specialist				HR	8	\$110.00	\$880.00		\$0.00	\$0.00	0.0	\$0.00
	5	Per Diem				Day	0	\$50.00	\$0.00		\$0.00	\$0.00	0.0	\$0.00
						SUBTOTAL PAGE 2 COST	\$36,035.00	SUBTOTAL PAGE 2 PREVIOUS	\$0.00	SUBTOTAL PAGE 2 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 2 TO DATE	\$0.00	





WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: CPO DEPxx*xx						Application No.: 1			Page 4 of 6 Pages		
Contract Name: 2023 AML Contract S(4)											
Commodity Line: 9											
Project Name: Branchland - Hubball A											
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
TASK III: DESIGN											
A	SITE RECONNAISSANCE AND INVESTIGATIONS										
1	Senior Project Manager	HR	4	\$275.00	\$1,100.00		\$0.00		\$0.00	0.0	\$0.00
2	Project Manager / Senior Engineer	HR	16	\$190.00	\$3,040.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	240	\$0.70	\$168.00		\$0.00		\$0.00	0.0	\$0.00
4	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
B	SURVEYING & MAPPING										
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00		\$0.00		\$0.00	0.0	\$0.00
2	Staff Engineer	HR	0	\$115.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
3	Professional Surveyor / Chief Surveyor	HR	2	\$145.00	\$290.00		\$0.00		\$0.00	0.0	\$0.00
4	Survey Crew	HR	10	\$95.00	\$950.00		\$0.00		\$0.00	0.0	\$0.00
5	Senior Technician	HR	0	\$110.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
6	Topographic, Planimetric and Check Surveying	Acre	0	\$0.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
7	Mileage	Mile	470	\$0.70	\$329.00		\$0.00		\$0.00	0.0	\$0.00
8	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
C	GEOTECHNICAL INVESTIGATION	Not Required for this project									
				SUBTOTAL PAGE 4 COST	\$7,497.00	SUBTOTAL PAGE 4 PREVIOUS	\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 4 TO DATE	\$0.00



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION  
**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Purchase Order No.: CPO DEPxx\*xx  
 Contract Name: 2023 AML Contract S(4)  
 Commodity Line: 9  
 Project Name: Branchland - Hubball A

Application No.: 1

Page 5 of 6 Pages

SCHEDULE PER CONTRACT						WORK COMPLETED					
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	PREVIOUS UNITS	PREVIOUS BILLED COST	THIS APPLICATION UNITS	AMOUNT DUE THIS APPLICATION COST	TOTAL BILLED TO DATE	
										UNITS	COST
<b>TASK III: DESIGN (CONTINUED)</b>											
D	ANALYSIS AND DESIGN										
1	Senior Project Manager	HR	4	\$210.00	\$840.00						
2	Project Manager	HR	25	\$190.00	\$4,750.00		\$0.00		\$0.00	0.0	\$0.00
3	Enviornmental Specialist	HR	4	\$120.00	\$480.00		\$0.00		\$0.00	0.0	\$0.00
4	Staff Engineer	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00
5	CADD Technician	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00
E	PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE										
1	Senior Project Manager	HR	5	\$210.00	\$1,050.00					0.0	\$0.00
2	Project Manager	HR	40	\$190.00	\$7,600.00		\$0.00		\$0.00	0.0	\$0.00
3	Enviornmental Specialist	HR	0	\$120.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	Staff Engineer	HR	60	\$115.00	\$6,900.00		\$0.00		\$0.00	0.0	\$0.00
5	CADD Technician	HR	50	\$115.00	\$5,750.00		\$0.00		\$0.00	0.0	\$0.00
F	PERMITTING [NPDES]										
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00					0.0	\$0.00
2	Engineer / Environmental Scientist	HR	35	\$115.00	\$4,025.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	0	\$0.70	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	CADD Technician	HR	25	\$115.00	\$2,875.00		\$0.00		\$0.00	0.0	\$0.00
G	PRE-BID CONFERENCE										
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00					0.0	\$0.00
2	Mileage	Mile	460	\$0.70	\$322.00		\$0.00		\$0.00	0.0	\$0.00
3	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
H	PRE-CONSTRUCTION CONFERENCE										
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00					0.0	\$0.00
2	Construction Inspector	HR	8	\$116.00	\$928.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	460	\$0.70	\$322.00		\$0.00		\$0.00	0.0	\$0.00
					<b>SUBTOTAL PAGE 5 COST</b>		<b>\$45,052.00</b>	<b>SUBTOTAL PAGE 5 PREVIOUS</b>	<b>\$0.00</b>	<b>SUBTOTAL PAGE 5 THIS APPLICATION</b>	<b>\$0.00</b>
										<b>SUBTOTAL PAGE 5 TO DATE</b>	<b>\$0.00</b>

## Page 6 of 6 Pages

Commodity Line:	
Project Name:	Branchland - Hubball A

## TOTAL BILLED TO DATE

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\$0.00

\$0.00

Branchland - Hubball A

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: CPO DEPxx*xx						Application No.: 1			Page X of X Pages		
Contract Name: 2023 AML Contract S(4)						THE GRAND TOTALS HERE COULD BE MADE A SEPARATE 'SHEET' SO TO SUM ALL PROJECT TOTALS					
Commodity Line: N/A						EACH PROJECT COULD/SHOULD BE ON A SEPARATE 'SHEET', AND PAGE NUMBERS CORRECTED AS NEEDED					
Project Name: N/A						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
2023 AML						GRAND TOTAL COST	\$156,924.00	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00
CONTRACT NAME: Contract S(4)										GRAND TOTAL TO DATE	\$0.00

## CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 2 of 6 Pages

<b>Project Name:</b>	<b>Harmonds Creek Portals Phase II</b>
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PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE
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AML-7A (Revised 7/5/2023)

**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Page 3 of 6 Pages

AML-7A (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION  
**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Purchase Order No.: CPO DEPxx*xx						Application No.: 1				Page 4 of 6 Pages	
Contract Name: 2023 AML Contract S(4)						WORK COMPLETED					
Commodity Line: 10											
Project Name: Harmonds Creek Portals Phase II											
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK		DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
TASK III: DESIGN											
A		SITE RECONNAISSANCE AND INVESTIGATIONS									
	1	Senior Project Manager	HR	3	\$275.00		\$0.00		\$0.00	0.0	\$0.00
	2	Project Manager	HR	6	\$190.00		\$0.00		\$0.00	0.0	\$0.00
	3	Mileage	Mile	160	\$0.70		\$0.00		\$0.00	0.0	\$0.00
	4	Per Diem	Day	1	\$50.00		\$0.00		\$0.00	0.0	\$0.00
B		SURVEYING & MAPPING									
	1	Project Manager / Senior Engineer	HR	30	\$190.00		\$0.00		\$0.00	0.0	\$0.00
	2	Staff Engineer	HR	20	\$115.00		\$0.00		\$0.00	0.0	\$0.00
	3	Professional Surveyor / Chief Surveyor	HR	4	\$145.00		\$0.00		\$0.00	0.0	\$0.00
	4	Survey Crew	HR	12	\$95.00		\$0.00		\$0.00	0.0	\$0.00
	5	Senior Technician	HR	0	\$110.00		\$0.00		\$0.00	0.0	\$0.00
	6	Topographic, Planimetric and Check Surveying	Acre	13	\$250.00		\$0.00		\$0.00	0.0	\$0.00
	7	Mileage	Mile	160	\$0.70		\$0.00		\$0.00	0.0	\$0.00
	8	Per Diem	Day	1	\$50.00		\$0.00		\$0.00	0.0	\$0.00
C		GEOTECHNICAL INVESTIGATION									
	1	Project Manager / Senior Engineer	HR	10	\$210.00		\$0.00		\$0.00	0.0	\$0.00
	2	Geotechnical Engineer/Geologist	HR	40	\$185.00		\$0.00		\$0.00	0.0	\$0.00
	3	Mobilization / Demobilization	LS	1	\$4,500.00		\$0.00		\$0.00	0.0	\$0.00
	4	Soil Augering	LF	810	\$32.00		\$0.00		\$0.00	0.0	\$0.00
	5	Rock Coring	LF	1500	\$70.00		\$0.00		\$0.00	0.0	\$0.00
	6	Heavy Equipment	HR	100	\$190.00		\$0.00		\$0.00	0.0	\$0.00
	7	Piezometer Installation	LF	625	\$25.00		\$0.00		\$0.00	0.0	\$0.00
	8	Drill Crew Per Diem	Day	55	\$370.00		\$0.00		\$0.00	0.0	\$0.00
	9	Reclamation	LS	1	\$8,000.00		\$0.00		\$0.00	0.0	\$0.00
	10	Geotechnical Investigation Report	LS	0	\$0.00		\$0.00		\$0.00	0.0	\$0.00
	11	Mileage	Mile	200	\$0.70		\$0.00		\$0.00	0.0	\$0.00
	12	Per Diem	Day	1	\$50.00		\$0.00		\$0.00	0.0	\$0.00
SUBTOTAL PAGE 4 COST					\$223,344.00	SUBTOTAL PAGE 4 PREVIOUS	\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 4 TO DATE	\$0.00



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION  
**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Purchase Order No.: CPO DEPxx\*xx

Contract Name: 2023 AML Contract S(4)

Commodity Line: 10

Project Name: Harmonds Creek Portals Phase II

Application No.: 1

Page 5 of 6 Pages

SCHEDULE PER CONTRACT						WORK COMPLETED					
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	PREVIOUS UNITS	PREVIOUS BILLED COST	THIS APPLICATION UNITS	AMOUNT DUE THIS APPLICATION COST	TOTAL BILLED TO DATE	
										UNITS	COST
<b>TASK III: DESIGN (CONTINUED)</b>											
<b>D</b>	<b>ANALYSIS AND DESIGN</b>										
1	Senior Project Manager	HR	4	\$210.00	\$840.00						
2	Project Manager	HR	20	\$190.00	\$3,800.00		\$0.00		\$0.00	0.0	\$0.00
3	Environmental Specialist	HR	2	\$120.00	\$240.00		\$0.00		\$0.00	0.0	\$0.00
4	Staff Engineer	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00
5	CADD Technician	HR	15	\$115.00	\$1,725.00		\$0.00		\$0.00	0.0	\$0.00
									\$0.00	0.0	\$0.00
<b>E</b>	<b>PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE</b>										
1	Senior Project Manager	HR	4	\$210.00	\$840.00						
2	Project Manager	HR	80	\$190.00	\$15,200.00		\$0.00		\$0.00	0.0	\$0.00
3	Environmental Specialist	HR	2	\$120.00	\$240.00		\$0.00		\$0.00	0.0	\$0.00
4	Staff Engineer	HR	60	\$115.00	\$6,900.00		\$0.00		\$0.00	0.0	\$0.00
5	CADD Technician	HR	100	\$115.00	\$11,500.00		\$0.00		\$0.00	0.0	\$0.00
									\$0.00	0.0	\$0.00
<b>F</b>	<b>PERMITTING [NPDES, USACE]</b>										
1	Project Manager / Senior Engineer	HR	20	\$190.00	\$3,800.00						
2	Engineer / Environmental Scientist	HR	60	\$115.00	\$6,900.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	0	\$105.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	CADD Technician	HR	30	\$115.00	\$3,450.00		\$0.00		\$0.00	0.0	\$0.00
									\$0.00	0.0	\$0.00
<b>G</b>	<b>PRE-BID CONFERENCE</b>										
1	Project Manager / Senior Engineer	HR	5	\$190.00	\$950.00						
2	Mileage	Mile	160	\$0.70	\$112.00		\$0.00		\$0.00	0.0	\$0.00
3	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
									\$0.00	0.0	\$0.00
<b>H</b>	<b>PRE-CONSTRUCTION CONFERENCE</b>										
1	Project Manager / Senior Engineer	HR	5	\$190.00	\$950.00						
2	Construction Inspector	HR	5	\$116.00	\$580.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	160	\$0.70	\$112.00		\$0.00		\$0.00	0.0	\$0.00
									\$0.00	0.0	\$0.00
					<b>SUBTOTAL PAGE 5 COST</b>		<b>\$60,489.00</b>	<b>SUBTOTAL PAGE 5 PREVIOUS</b>	<b>\$0.00</b>	<b>SUBTOTAL PAGE 5 THIS APPLICATION</b>	<b>\$0.00</b>
										<b>SUBTOTAL PAGE 5 TO DATE</b>	<b>\$0.00</b>

## CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 6 of 6 Pages

<b>Project Name:</b>	<b>Harmonds Creek Portals Phase II</b>
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PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE
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AML-7A (Revised 7/5/2023)

## Harmonds Creek Portals Phase II



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: CPO DEPxx*xx						Application No.: 1			Page X of X Pages		
Contract Name: 2023 AML Contract S(4)						THE GRAND TOTALS HERE COULD BE MADE A SEPARATE 'SHEET' SO TO SUM ALL PROJECT TOTALS					
Commodity Line: N/A						EACH PROJECT COULD/SHOULD BE ON A SEPARATE 'SHEET', AND PAGE NUMBERS CORRECTED AS NEEDED					
Project Name: N/A						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
2023 AML						GRAND TOTAL COST	\$448,932.00	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00
CONTRACT NAME: Contract S(4)										GRAND TOTAL TO DATE	\$0.00

AML-7 (Revised 7/5/2023)



**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Page 3 of 6 Pages

AML-7A (Revised 7/5/2023)

### CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 4 of 6 Pages

Project Name:	West Columbia - B Phase II
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THIS APPLICATION	AMOUNT DUE THIS APPLICATION
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THIS  
APPLICATION

### COST

**\$0.00**

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION  
**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Purchase Order No.: CPO DEPxx\*xx

Contract Name: 2023 AML Contract S(4)

Commodity Line: 11

Project Name: West Columbia - B Phase II

Application No.: 1

Page 5 of 6 Pages

**SCHEDULE PER CONTRACT**

**WORK COMPLETED**

SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST
TASK III: DESIGN (CONTINUED)											
D	ANALYSIS AND DESIGN										
1	Senior Project Manager	HR	4	\$190.00	\$760.00						
2	Project Manager	HR	20	\$185.00	\$3,700.00		\$0.00		\$0.00	0.0	\$0.00
3	Enviornmental Specialist	HR	2	\$120.00	\$240.00		\$0.00		\$0.00	0.0	\$0.00
4	Staff Engineer	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00
5	CADD Technician	HR	10	\$115.00	\$1,150.00		\$0.00		\$0.00	0.0	\$0.00
									\$0.00	0.0	\$0.00
E	PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE										
1	Senior Project Manager	HR	4	\$190.00	\$760.00						
2	Project Manager	HR	40	\$185.00	\$7,400.00		\$0.00		\$0.00	0.0	\$0.00
3	Enviornmental Specialist	HR	0	\$120.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	Staff Engineer	HR	80	\$115.00	\$9,200.00		\$0.00		\$0.00	0.0	\$0.00
5	CADD Technician	HR	90	\$115.00	\$10,350.00		\$0.00		\$0.00	0.0	\$0.00
									\$0.00	0.0	\$0.00
F	PERMITTING [NPDES, USACE]										
1	Project Manager / Senior Engineer	HR	15	\$190.00	\$2,850.00						
2	Staff Engineer	HR	35	\$115.00	\$4,025.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	0	\$105.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	CADD Technician	HR	30	\$115.00	\$3,450.00		\$0.00		\$0.00	0.0	\$0.00
									\$0.00	0.0	\$0.00
G	PRE-BID CONFERENCE										
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00						
2	Mileage	Mile	290	\$0.70	\$203.00		\$0.00		\$0.00	0.0	\$0.00
3	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
									\$0.00	0.0	\$0.00
H	PRE-CONSTRUCTION CONFERENCE										
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00						
2	Construction Inspector	HR	8	\$116.00	\$928.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	290	\$0.70	\$203.00		\$0.00		\$0.00	0.0	\$0.00
									\$0.00	0.0	\$0.00
				SUBTOTAL PAGE 5 COST	\$50,609.00	SUBTOTAL PAGE 5 PREVIOUS	\$0.00	SUBTOTAL PAGE 5 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 5 TO DATE	\$0.00

AML-7A (Revised 7/5/2023)

Project Name:	West Columbia - B Phase II
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PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE
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SUBTOTAL PAGE 6 COST	\$89,686.00	SUBTOTAL PAGE 6 PREVIOUS	\$0.00	SUBTOTAL PAGE 6 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 6 TO DATE	\$0.00
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West Columbia - B Phase II



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: CPO DEPxx\*xx

Contract Name: 2023 AML Contract S(4)

Commodity Line: N/A

Project Name: N/A

Application No.: 1

Page X of X Pages

THE GRAND TOTALS HERE COULD BE MADE A SEPARATE 'SHEET' SO TO SUM ALL PROJECT TOTALS EACH PROJECT COULD/SHOULD BE ON A SEPARATE 'SHEET', AND PAGE NUMBERS CORRECTED AS NEEDED

SCHEDULE PER CONTRACT

WORK COMPLETED

TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	PREVIOUS UNITS	PREVIOUS BILLED COST	THIS APPLICATION UNITS	AMOUNT DUE THIS APPLICATION COST	TOTAL BILLED TO DATE UNITS	TOTAL BILLED TO DATE COST

AML-7 (Revised 7/5/2023)

2023 AML  
CONTRACT NAME: Contract S(4)

GRAND TOTAL COST	\$287,268.00	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00
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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION												
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT												
Purchase Order No.: CPO DEPxx*xx						Application No.: 1		Page 2 of 6 Pages				
Contract Name: 2023 AML Contract S(4)												
Commodity Line: 12												
Project Name: Lanham (Workman) Portals												
SCHEDULE PER CONTRACT						WORK COMPLETED						
						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE		
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST	
<b>TASK I: NEPA &amp; ESA</b>												
A	Agency Coordinations (including Office Work, AMLNET, etc.)											
1	Project Manager / Senior Engineer	HR	26	\$185.00	\$4,810.00		\$0.00		\$0.00	0.0	\$0.00	
2	Engineer / Technical Scientist	HR	19	\$120.00	\$2,280.00		\$0.00		\$0.00	0.0	\$0.00	
3	Environmental Technician II	HR	19	\$90.00	\$1,710.00		\$0.00		\$0.00	0.0	\$0.00	
4	Planning / Technical Specialist	HR	12	\$110.00	\$1,320.00		\$0.00		\$0.00	0.0	\$0.00	
5	Per Diem	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
B	Public Involvement (including Legal Ads, Public Hearings, Documents, Presentations, WVDEP's Website, etc.)											
1	Project Manager / Senior Engineer	HR	10	\$185.00	\$1,850.00		\$0.00		\$0.00	0.0	\$0.00	
2	Engineer / Technical Scientist	HR	0	\$120.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
3	Environmental Technician II	HR	0	\$90.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
4	Planning / Technical Specialist	HR	0	\$110.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
5	Per Diem	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
C	Studies, Surveys & Mitigation Plans (as applicable) [Water Sampling (1 round), Wetland/Stream Delineation & Report]											
1	Project Manager / Senior Engineer	HR	22	\$185.00	\$4,070.00		\$0.00		\$0.00	0.0	\$0.00	
2	Engineer / Technical Scientist	HR	45	\$120.00	\$5,400.00		\$0.00		\$0.00	0.0	\$0.00	
3	Environmental Technician II	HR	25	\$90.00	\$2,250.00		\$0.00		\$0.00	0.0	\$0.00	
4	Planning / Technical Specialist	HR	8	\$110.00	\$880.00		\$0.00		\$0.00	0.0	\$0.00	
5	Mileage	Mile	450	\$0.70	\$315.00		\$0.00		\$0.00	0.0	\$0.00	
6	Per Diem	Day	2	\$50.00	\$100.00		\$0.00		\$0.00	0.0	\$0.00	
C	CATEX / EA / FONSI / EIS											
1	Project Manager / Senior Engineer	HR	16	\$185.00	\$2,960.00		\$0.00		\$0.00	0.0	\$0.00	
2	Engineer / Technical Scientist	HR	20	\$120.00	\$2,400.00		\$0.00		\$0.00	0.0	\$0.00	
3	Environmental Technician II	HR	20	\$90.00	\$1,800.00		\$0.00		\$0.00	0.0	\$0.00	
4	Planning / Technical Specialist	HR	8	\$110.00	\$880.00		\$0.00		\$0.00	0.0	\$0.00	
5	Per Diem	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
					<b>SUBTOTAL PAGE 2 COST</b>	<b>\$33,025.00</b>	<b>SUBTOTAL PAGE 2 PREVIOUS</b>	<b>\$0.00</b>	<b>SUBTOTAL PAGE 2 THIS APPLICATION</b>	<b>\$0.00</b>	<b>SUBTOTAL PAGE 2 TO DATE</b>	<b>\$0.00</b>



**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Contract Name:	2023 AML Contract S(4)
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Commodity Line:	12
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Project Name:	Lanham (Workman) Portals
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Application No.: 1

Page 3 of 6 Pages

AML-7A (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION  
**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Application No.: 1

Page 4 of 6 Pages

Purchase Order No.: CPO DEPxx\*xx  
 Contract Name: 2023 AML Contract S(4)  
 Commodity Line: 12  
 Project Name: Lanham (Workman) Portals

**SCHEDULE PER CONTRACT**

**WORK COMPLETED**

						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
						UNITS	COST	UNITS	COST	UNITS	COST
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE						
<b>TASK III: DESIGN</b>											
<b>A</b>	<b>SITE RECONNAISSANCE AND INVESTIGATIONS</b>										
1	Senior Project Manager	HR	3	\$210.00	\$630.00		\$0.00		\$0.00	0.0	\$0.00
2	Project Manager	HR	10	\$190.00	\$1,900.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	160	\$0.70	\$112.00		\$0.00		\$0.00	0.0	\$0.00
4	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
<b>B</b>	<b>SURVEYING &amp; MAPPING</b>										
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00		\$0.00		\$0.00	0.0	\$0.00
2	Staff Engineer	HR	1	\$115.00	\$115.00		\$0.00		\$0.00	0.0	\$0.00
3	Professional Surveyor / Chief Surveyor	HR	0	\$145.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	Survey Crew	HR	8	\$95.00	\$760.00		\$0.00		\$0.00	0.0	\$0.00
5	Senior Technician	HR	0	\$110.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
6	Topographic, Planimetric and Check Surveying	Acre	0	\$250.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
7	Mileage	Mile	160	\$0.70	\$112.00		\$0.00		\$0.00	0.0	\$0.00
8	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
<b>C</b>	<b>GEOTECHNICAL INVESTIGATION</b>										
1	Project Manager / Senior Engineer	HR	12	\$210.00	\$2,520.00		\$0.00		\$0.00	0.0	\$0.00
2	Geotechnical Engineer/Geologist	HR	8	\$185.00	\$1,480.00		\$0.00		\$0.00	0.0	\$0.00
3	Mobilization / Demobilization	LS	1	\$3,500.00	\$3,500.00		\$0.00		\$0.00	0.0	\$0.00
4	Soil Augering	LF	60	\$32.00	\$1,920.00		\$0.00		\$0.00	0.0	\$0.00
5	Rock Coring	LF	300	\$70.00	\$21,000.00		\$0.00		\$0.00	0.0	\$0.00
6	Heavy Equipment	HR	30	\$190.00	\$5,700.00		\$0.00		\$0.00	0.0	\$0.00
7	Piezometer Installation	LF	125	\$25.00	\$3,125.00		\$0.00		\$0.00	0.0	\$0.00
8	Drill Crew Per Diem	Day	6	\$370.00	\$2,220.00		\$0.00		\$0.00	0.0	\$0.00
9	Reclamation	LS	1	\$3,000.00	\$3,000.00		\$0.00		\$0.00	0.0	\$0.00
10	Geotechnical Investigation Report	LS	0	\$0.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
11	Mileage	Mile	200	\$0.70	\$140.00		\$0.00		\$0.00	0.0	\$0.00
12	Per Diem	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
<b>SUBTOTAL PAGE 4 COST</b>						<b>SUBTOTAL PAGE 4 PREVIOUS</b>	<b>\$0.00</b>	<b>SUBTOTAL PAGE 4 THIS APPLICATION</b>	<b>\$0.00</b>	<b>SUBTOTAL PAGE 4 TO DATE</b>	<b>\$0.00</b>

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION  
**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Purchase Order No.: CPO DEPxx+xx  
 Contract Name: 2023 AML Contract S(4)  
 Commodity Line: 12  
 Project Name: Lanham (Workman) Portals

Application No.: 1

Page 5 of 6 Pages

**SCHEDULE PER CONTRACT**

**WORK COMPLETED**

TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	PREVIOUS UNITS	PREVIOUS BILLED COST	THIS APPLICATION UNITS	AMOUNT DUE THIS APPLICATION COST	TOTAL BILLED TO DATE UNITS	TOTAL BILLED TO DATE COST
<b>TASK III: DESIGN (CONTINUED)</b>											
<b>D</b>	<b>ANALYSIS AND DESIGN</b>										
1	Senior Project Manager	HR	4	\$210.00	\$840.00						
2	Project Manager	HR	22	\$190.00	\$4,180.00		\$0.00		\$0.00	0.0	\$0.00
3	Environmental Specialist	HR	4	\$120.00	\$480.00		\$0.00		\$0.00	0.0	\$0.00
4	Staff Engineer	HR	10	\$115.00	\$1,150.00		\$0.00		\$0.00	0.0	\$0.00
5	CADD Technician	HR	15	\$115.00	\$1,725.00		\$0.00		\$0.00	0.0	\$0.00
<b>E</b>	<b>PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE</b>										
1	Senior Project Manager	HR	6	\$210.00	\$1,260.00						
2	Project Manager	HR	40	\$190.00	\$7,600.00		\$0.00		\$0.00	0.0	\$0.00
3	Environmental Specialist	HR	2	\$120.00	\$240.00		\$0.00		\$0.00	0.0	\$0.00
4	Staff Engineer	HR	20	\$115.00	\$2,300.00		\$0.00		\$0.00	0.0	\$0.00
5	CADD Technician	HR	30	\$115.00	\$3,450.00		\$0.00		\$0.00	0.0	\$0.00
<b>F</b>	<b>PERMITTING [NPDES]</b>										
1	Project Manager / Senior Engineer	HR	20	\$190.00	\$3,800.00						
2	Engineer / Environmental Scientist	HR	25	\$115.00	\$2,875.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	0	\$105.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	CADD Technician	HR	10	\$115.00	\$1,150.00		\$0.00		\$0.00	0.0	\$0.00
<b>G</b>	<b>PRE-BID CONFERENCE</b>										
1	Project Manager / Senior Engineer	HR	5	\$190.00	\$950.00						
2	Mileage	Mile	160	\$0.70	\$112.00		\$0.00		\$0.00	0.0	\$0.00
3	Per Diem	Day	1	\$50.00	\$50.00		\$0.00		\$0.00	0.0	\$0.00
<b>H</b>	<b>PRE-CONSTRUCTION CONFERENCE</b>										
1	Project Manager / Senior Engineer	HR	5	\$190.00	\$950.00						
2	Construction Inspector	HR	5	\$116.00	\$580.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	160	\$0.70	\$112.00		\$0.00		\$0.00	0.0	\$0.00
					<b>SUBTOTAL PAGE 5 COST</b>		<b>\$33,804.00</b>	<b>SUBTOTAL PAGE 5 PREVIOUS</b>	<b>\$0.00</b>	<b>SUBTOTAL PAGE 5 THIS APPLICATION</b>	<b>\$0.00</b>
									<b>\$0.00</b>	<b>SUBTOTAL PAGE 5 TO DATE</b>	<b>\$0.00</b>



## Page 6 of 6 Pages

Commodity Line:	1
Project Name:	Lanham (Workman) Portals

## TOTAL BILLED TO DATE

### COST

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

1000

1000

\$0.00

**\$0.00**

100%

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**\$0.00**

**\$0.00**

### Lanham (Workman) Portals

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION  
**CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT**

Purchase Order No.: CPO DEPxx\*xx  
 Contract Name: 2023 AML Contract S(4)  
 Commodity Line: N/A  
 Project Name: N/A

Application No.: 1

Page X of X Pages

THE GRAND TOTALS HERE COULD BE MADE A SEPARATE 'SHEET' SO TO SUM ALL PROJECT TOTALS  
 EACH PROJECT COULD/SHOULD BE ON A SEPARATE 'SHEET', AND PAGE NUMBERS CORRECTED AS NEEDED

**SCHEDULE PER CONTRACT**

**WORK COMPLETED**

TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE
						UNITS	COST	UNITS	COST	UNITS COST

AML-7 (Revised 7/5/2023)

2023 AML  
 CONTRACT NAME: Contract S(4)

GRAND TOTAL COST	\$183,565.00	GRAND TOTAL PREVIOUS		GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00
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