

JULY 9, 2018

DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

EXPRESSION OF INTEREST

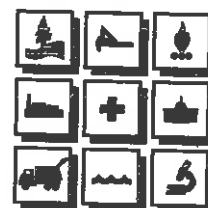
EOI - PINE BLUFF (WILSON) REFUSE - EPAM 16038
RECLAMATION AND NPDES PERMITTING

NPDES Permit MM109



07/10/18 10:13:50
WV Purchasing Division

MSES consultants, inc.
1000 Green River Drive, Suite #200
Fairmont, West Virginia 26554





July 9, 2018
Proposal No.: PR-18-016

Ms. Brittany Ingraham
Department of Administration
Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

**EXPRESSION OF INTEREST
EOI - PINE BLUFF (WILSON) REFUSE – EPAM 16038
RECLAMATION AND NPDES PERMITTING
HARRISON COUNTY, WEST VIRGINIA**

Dear Ms. Ingraham:

MSES consultants, inc. (MSES) is pleased to submit this Expression of Interest for the professional architectural and engineering services being solicited by the West Virginia Department of Environmental Protection, Office of Abandoned Mine Lands and Reclamation for the Pine Bluff (Wilson) Refuse area for:

- Upgrade access as required
- Protect area of the adjacent cemetery
- Clear and grub affected areas
- Regrade as necessary
- Entomb acid forming materials with on-site-available borrow material and away from any water source
- Install drainage channels, underdrains, and/or other controls to safely convey water off-site
- Condition and revegetate all disturbed areas

This submittal includes the following:

- ☐ Completed West Virginia Department of Environmental Protection, Consultant Qualification Questionnaire". Attachment B
- ☐ Completed Spreadsheet of AML and Related Project Experience Matrix (Attachment C)

Environmental ☐ *Engineering* ☐ *Energy* ☐ *Air*
Safety ☐ *Land Services* ☐ *Waste Management* ☐ *Water* ☐ *Industrial Hygiene*

- ☐ Supplemental information of Questionnaire Item 19, which includes an overview of MSES with information describing our qualifications, experience, management and staffing capabilities, and related prior experience.

MSES has extensive experience in surveying and mapping, surface and subsurface deed research, AMD treatment, solid waste, grading, storm water management, wastewater management, soils analysis and soils distribution and vegetation planning for land reclamation. This submittal demonstrates MSES is well qualified to provide these services for the Pine Bluff (Wilson) Refuse area. Our dedicated staff of full-time in-house professionals have the capabilities and experience to fully realize the Office of Abandoned Mine Lands and Reclamation project goals in a technically-sound, highly-professional, and cost-effective manner. In summary, the MSES Team provides:

- (1) substantial experience on similar projects
- (2) strong performance record on similar projects
- (3) comprehensive in-house expertise
- (4) regional presence, knowledge, and experience
- (5) fully qualified and experienced project personnel
- (6) clear understanding of goals and requirements of the and West Virginia Department of Environmental Protection, Office of Abandoned Mine Lands and Reclamation
- (7) familiarity with applicable regulations and other federal, state, and local codes and policies
- (8) sincere interest in teaming with the West Virginia Department of Environmental Protection, Office of Abandoned Mine Lands and Reclamation.

We thank you for the opportunity to submit this Expression of Interest and look forward to working with you on this important, upcoming assignment.

Sincerely,


Lawrence M. Rine
Principal



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

State of West Virginia
Centralized Expression of Interest
02 - Architect/Engr

Proc Folder: 425927

Doc Description: Addendum No.01 EOI - Pine Bluff (Wilson) Refuse - EPAM16038

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2018-06-07	2018-07-10 13:30:00	CEOI 0313 DEP1800000004	2

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

VENDOR

Vendor Name, Address and Telephone Number:

MSES consultants, inc.

P.O. Drawer 190

Marcksburg, WV 26302-0190

1000 Green River Drive
Fairmont, WV 26554

FOR INFORMATION CONTACT THE BUYER

Brittany E Ingraham

(304) 558-2157

brittany.e.ingraham@wv.gov

Signature X

FEIN # 55-0637279

DATE July 9, 2018

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

ADDITIONAL INFORMATION:**Addendum**

Addendum No.01 issued to publish and distribute the attached information to the vendor community.

Expression of Interest
(DEP Pine Bluff (Wilson) Refuse Project)

The West Virginia Purchasing Division is soliciting Expression(s) of Interest for the Agency, The Department of Environmental Protection (WVDEP) from qualified firms to provide engineering services and other related professional services per the bid requirements, specifications, and terms and conditions as attached hereto.

* Online submission of Expression of Interest are Prohibited.*

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US		ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	

Line	Comm Ln Desc	Qty	Unit Issue
1	EOI Engineering Design Services		

Comm Code	Manufacturer	Specification	Model #
01100000			

Extended Description :

*Dates of Service are estimated for bidding purposes only.

SOLICITATION NUMBER: CEOI DEP1800000004
Addendum Number: No.01

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- ☒ | Modify bid opening date and time
- ☐ | Modify specifications of product or service being sought
- ☐ | Attachment of vendor questions and responses
- ☐ | Attachment of pre-bid sign-in sheet
- ☐ | Correction of error
- ☒ | Other

Description of Modification to Solicitation:

Addendum issued to publish and distribute the attached documentation to the vendor community.

THE PURPOSE OF THIS ADDENDUM IS TO CHANGE THE FOLLOWING:

Question Deadline: WAS 06/05/2018 at 9 AM EST, IS NOW 06/28/2018 at 9 AM EST
Bid Opening Date: WAS 06/12/2018 at 1:30 PM EST, IS NOW 07/10/2018 at 1:30 PM EST
Buyer: WAS Guy Nisbet, IS NOW Brittany Ingraham

Email: Brittany.E.Ingraham@wv.gov

No other changes.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: _____

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

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

Addendum Numbers Received:

(Check the box next to each addendum received)

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

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

_____ MSES consultants, inc.

_____ Company

_____ Authorized Signature

_____ July 9, 2018

_____ Date

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



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

State of West Virginia
Centralized Expression of Interest
02 - Architect/Engr

Proc Folder: 425927

Doc Description: Addendum No.01 EOI - Pine Bluff (Wilson) Refuse - EPAM16038

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2018-06-07	2018-07-10 13:30:00	CEOI 0313 DEP1800000004	2

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

VENDOR

Vendor Name, Address and Telephone Number:

MSES consultants, inc.

P.O. Drawer 190

arksburg, WV 26302-0190

1000 Green River Drive
Fairmont, WV 26554

FOR INFORMATION CONTACT THE BUYER

Brittany E Ingraham

(304) 558-2157

brittany.e.ingraham@wv.gov

Signature X

FEIN # 55-0637279

DATE July 9, 2018

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

ADDITIONAL INFORMATION:**Addendum**

Addendum No.01 issued to publish and distribute the attached information to the vendor community.

Expression of Interest
 (DEP Pine Bluff (Wilson) Refuse Project)

The West Virginia Purchasing Division is soliciting Expression(s) of Interest for the Agency, The Department of Environmental Protection (WVDEP) from qualified firms to provide engineering services and other related professional services per the bid requirements, specifications, and terms and conditions as attached hereto.

* Online submission of Expression of Interest are Prohibited.*

INVOICE TO	SHIP TO
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US	ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US

Line	Comm Ln Desc	Qty	Unit Issue
1	EOI Engineering Design Services		

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description :

*Dates of Service are estimated for bidding purposes only.

DEP1800000004	Document Phase Final	Document Description Addendum No.01 EOI - Pine Bluff (Wilson) Refuse - EPAM16038	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions



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

State of West Virginia
Centralized Expression of Interest
02 - Architect/Engr

Proc Folder: 425927

Doc Description: EOI - Pine Bluff (Wilson) Refuse - EPAM16038

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2018-05-15	2018-06-12 13:30:00	CEOI 0313 DEP1800000004	1

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

VENDOR

Vendor Name, Address and Telephone Number:

MSES consultants, inc.

P. O Drawer 190

arksburg, WV 26302-0190

1000 Green River Drive
Fairmint, WV 26554

FOR INFORMATION CONTACT THE BUYER

Guy Nisbet

(304) 558-2596

guy.l.nisbet@wv.gov

Signature X

FEIN # 55-0637279

DATE July 9, 2018

Offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

Expression of Interest
(DEP Pine Bluff (Wilson) Refuse Project)

The West Virginia Purchasing Division is soliciting Expression(s) of Interest for the Agency, The Department of Environmental Protection (WVDEP) from qualified firms provide engineering services and other related professional services per the bid requirements, specifications, and terms and conditions as attached hereto.

* Online submission of Expression of Interest are Prohibited.*

INVOICE TO	SHIP TO
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US	ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US

Line	Comm Ln Desc	Qty	Unit Issue
1	EOI Engineering Design Services		

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description :

*Dates of Service are estimated for bidding purposes only.

DEP1800000004	Document Phase Draft	Document Description EOI - Pine Bluff (Wilson) Refuse - EPAM16038	Page 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

EXPRESSION OF INTEREST

Pine Bluff (Wilson) Refuse

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- 7. Certification and Signature Page**

SECTION ONE: GENERAL INFORMATION

- 1. PURPOSE:** The Acquisition and Contract Administration Section of the Purchasing Division ("Purchasing Division") is soliciting Expression(s) of Interest ("EOI" or "Bids") for the West Virginia Department of Environmental Protection, Office of Abandoned Mine Lands and Reclamation (WVDEP/AML) ("Agency"), from qualified firms to provide architectural/engineering services ("Vendors") as defined herein.
- 2. PROJECT:** The mission or purpose of the project for which bids are being solicited is to provide the following design services for Pine Bluff (Wilson) Refuse ("Project"):
 - Upgrade access as required.
 - Protect area of the adjacent cemetery.
 - Clear and grub affected areas.
 - Regrade as necessary.
 - Entomb acid-forming materials with on-site-available borrow material and away from any water source.
 - Install drainage channels, underdrains, and/or other controls to safely convey water off-site.
 - Condition and revegetate all disturbed areas.

EXPRESSION OF INTEREST
Pine Bluff (Wilson) Refuse

3. SCHEDULE OF EVENTS:

Release of the EOI.....05/15/2018
Firm's Written Questions Submission Deadline.....06/05/2018 at 9 AM EST
Addendum IssuedTBD
Expressions of Interest Opening Date.....06/12/2018 at 1:30 PM EST
Estimated Date for Interviews.....TBD

EXPRESSION OF INTEREST
Pine Bluff (Wilson) Refuse CRQS: DEP18*11

SECTION TWO: INSTRUCTIONS TO VENDORS SUBMITTING BIDS

Instructions begin on the next page.

INSTRUCTIONS TO VENDORS SUBMITTING BIDS

1. REVIEW DOCUMENTS THOROUGHLY: The attached documents contain a solicitation for bids. Please read these instructions and all documents attached in their entirety. These instructions provide critical information about requirements that if overlooked could lead to disqualification of a Vendor's bid. All bids must be submitted in accordance with the provisions contained in these instructions and the Solicitation. Failure to do so may result in disqualification of Vendor's bid.

2. MANDATORY TERMS: The Solicitation may contain mandatory provisions identified by the use of the words "must," "will," and "shall." Failure to comply with a mandatory term in the Solicitation will result in bid disqualification.

3. PREBID MEETING: The item identified below shall apply to this Solicitation.

☒ A pre-bid meeting will not be held prior to bid opening

☐ A NON-MANDATORY PRE-BID meeting will be held at the following place and time:

☐ A MANDATORY PRE-BID meeting will be held at the following place and time:

All Vendors submitting a bid must attend the mandatory pre-bid meeting. Failure to attend the mandatory pre-bid meeting shall result in disqualification of the Vendor's bid. No one person attending the pre-bid meeting may represent more than one Vendor.

An attendance sheet provided at the pre-bid meeting shall serve as the official document verifying attendance. The State will not accept any other form of proof or documentation to verify attendance. Any person attending the pre-bid meeting on behalf of a Vendor must list on the attendance sheet his or her name and the name of the Vendor he or she is representing.

Additionally, the person attending the pre-bid meeting should include the Vendor's E-Mail address, phone number, and Fax number on the attendance sheet. It is the Vendor's responsibility to locate the attendance sheet and provide the required information. Failure to complete the attendance sheet as required may result in disqualification of Vendor's bid.

All Vendors should arrive prior to the starting time for the pre-bid. Vendors who arrive after the starting time but prior to the end of the pre-bid will be permitted to sign in, but are charged with knowing all matters discussed at the pre-bid.

Questions submitted at least five business days prior to a scheduled pre-bid will be discussed at the pre-bid meeting if possible. Any discussions or answers to questions at the pre-bid meeting are preliminary in nature and are non-binding. Official and binding answers to questions will be published in a written addendum to the Solicitation prior to bid opening.

4. VENDOR QUESTION DEADLINE: Vendors may submit questions relating to this Solicitation to the Purchasing Division. Questions must be submitted in writing. All questions must be submitted on or before the date listed below and to the address listed below in order to be considered. A written response will be published in a Solicitation addendum if a response is possible and appropriate. Non-written discussions, conversations, or questions and answers regarding this Solicitation are preliminary in nature and are nonbinding.

Submitted e-mails should have solicitation number in the subject line.

Question Submission Deadline: June 5th, 2018 at 9:00 AM. EST.

Submit Questions to: Guy Nisbet
2019 Washington Street, East
Charleston, WV 25305
Fax: (304) 558-4115 (Vendors should not use this fax number for bid submission)
Email: Guy.L.Nisbet@WV.Gov

5. VERBAL COMMUNICATION: Any verbal communication between the Vendor and any State personnel is not binding, including verbal communication at the mandatory pre-bid conference. Only information issued in writing and added to the Solicitation by an official written addendum by the Purchasing Division is binding.

6. BID SUBMISSION: All bids must be submitted electronically through wvOASIS or signed and delivered by the Vendor to the Purchasing Division at the address listed below on or before the date and time of the bid opening. Any bid received by the Purchasing Division staff is considered to be in the possession of the Purchasing Division and will not be returned for any reason. The Purchasing Division will not accept bids, modification of bids, or addendum acknowledgment forms via e-mail. Acceptable delivery methods include electronic submission via wvOASIS, hand delivery, delivery by courier, or facsimile.

The bid delivery address is:
 Department of Administration, Purchasing Division
 2019 Washington Street East
 Charleston, WV 25305-0130

A bid that is not submitted electronically through wvOASIS should contain the information listed below on the face of the envelope or the bid may be rejected by the Purchasing Division.:

SEALED BID: EOI- PINE BLUFF (WILSON) REFUSE
 BUYER: Guy Nisbet
 SOLICITATION NO.:
 BID OPENING DATE:
 BID OPENING TIME:
 FAX NUMBER:

The Purchasing Division may prohibit the submission of bids electronically through wvOASIS at its sole discretion. Such a prohibition will be contained and communicated in the wvOASIS system resulting in the Vendor's inability to submit bids through wvOASIS. Submission of a response to an Expression or Interest or Request for Proposal is not permitted in wvOASIS.

For Request For Proposal ("RFP") Responses Only: In the event that Vendor is responding to a request for proposal, the Vendor shall submit one original technical and one original cost proposal plus N/A convenience copies of each to the Purchasing Division at the address shown above. Additionally, the Vendor should identify the bid type as either a technical or cost proposal on the face of each bid envelope submitted in response to a request for proposal as follows:

BID TYPE: (This only applies to CRFP)

- ☐ Technical
☐ Cost

7. BID OPENING: Bids submitted in response to this Solicitation will be opened at the location identified below on the date and time listed below. Delivery of a bid after the bid opening date and time will result in bid disqualification. For purposes of this Solicitation, a bid is considered delivered when confirmation of delivery is provided by wvOASIS (in the case of electronic submission) or when the bid is time stamped by the official Purchasing Division time clock (in the case of hand delivery).

Bid Opening Date and Time: June 12th, 2018 at 1:30 PM. EST.

Bid Opening Location: Department of Administration, Purchasing Division
 2019 Washington Street East
 Charleston, WV 25305-0130

- 8. ADDENDUM ACKNOWLEDGEMENT:** Changes or revisions to this Solicitation will be made by an official written addendum issued by the Purchasing Division. Vendor should acknowledge receipt of all addenda issued with this Solicitation by completing an Addendum Acknowledgment Form, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.
- 9. BID FORMATTING:** Vendor should type or electronically enter the information onto its bid to prevent errors in the evaluation. Failure to type or electronically enter the information may result in bid disqualification.
- 10. ALTERNATES:** Any model, brand, or specification listed in this Solicitation establishes the acceptable level of quality only and is not intended to reflect a preference for, or in any way favor, a particular brand or vendor. Vendors may bid alternates to a listed model or brand provided that the alternate is at least equal to the model or brand and complies with the required specifications. The equality of any alternate being bid shall be determined by the State at its sole discretion. Any Vendor bidding an alternate model or brand should clearly identify the alternate items in its bid and should include manufacturer's specifications, industry literature, and/or any other relevant documentation demonstrating the equality of the alternate items. Failure to provide information for alternate items may be grounds for rejection of a Vendor's bid.
- 11. EXCEPTIONS AND CLARIFICATIONS:** The Solicitation contains the specifications that shall form the basis of a contractual agreement. Vendor shall clearly mark any exceptions, clarifications, or other proposed modifications in its bid. Exceptions to, clarifications of, or modifications of a requirement or term and condition of the Solicitation may result in bid disqualification.
- 12. COMMUNICATION LIMITATIONS:** In accordance with West Virginia Code of State Rules §148-1-6.6, communication with the State of West Virginia or any of its employees regarding this Solicitation during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited without prior Purchasing Division approval. Purchasing Division approval for such communication is implied for all agency delegated and exempt purchases.
- 13. REGISTRATION:** Prior to Contract award, the apparent successful Vendor must be properly registered with the West Virginia Purchasing Division and must have paid the \$125 fee, if applicable.
- 14. UNIT PRICE:** Unit prices shall prevail in cases of a discrepancy in the Vendor's bid.
- 15. PREFERENCE:** Vendor Preference may only be granted upon written request and only in accordance with the West Virginia Code § 5A-3-37 and the West Virginia Code of State Rules. A Vendor Preference Certificate form has been attached hereto to allow Vendor to apply for the preference. Vendor's failure to submit the Vendor Preference Certificate form with its bid will result in denial of Vendor Preference. Vendor Preference does not apply to construction projects.

- 16. SMALL, WOMEN-OWNED, OR MINORITY-OWNED BUSINESSES:** For any solicitations publicly advertised for bid, in accordance with West Virginia Code §5A-3-37(a)(7) and W. Va. CSR § 148-22-9, any non-resident vendor certified as a small, women-owned, or minority-owned business under W. Va. CSR § 148-22-9 shall be provided the same preference made available to any resident vendor. Any non-resident small, women-owned, or minority-owned business must identify itself as such in writing, must submit that writing to the Purchasing Division with its bid, and must be properly certified under W. Va. CSR § 148-22-9 prior to contract award to receive the preferences made available to resident vendors. Preference for a non-resident small, women-owned, or minority owned business shall be applied in accordance with W. Va. CSR § 148-22-9.
- 17. WAIVER OF MINOR IRREGULARITIES:** The Director reserves the right to waive minor irregularities in bids or specifications in accordance with West Virginia Code of State Rules § 148-1-4.6.
- 18. ELECTRONIC FILE ACCESS RESTRICTIONS:** Vendor must ensure that its submission in wvOASIS can be accessed and viewed by the Purchasing Division staff immediately upon bid opening. The Purchasing Division will consider any file that cannot be immediately accessed and viewed at the time of the bid opening (such as, encrypted files, password protected files, or incompatible files) to be blank or incomplete as context requires, and are therefore unacceptable. A vendor will not be permitted to unencrypt files, remove password protections, or resubmit documents after bid opening to make a file viewable if those documents are required with the bid. A Vendor may be required to provide document passwords or remove access restrictions to allow the Purchasing Division to print or electronically save documents provided that those documents are viewable by the Purchasing Division prior to obtaining the password or removing the access restriction.
- 19. NON-RESPONSIBLE:** The Purchasing Division Director reserves the right to reject the bid of any vendor as Non-Responsible in accordance with W. Va. Code of State Rules § 148-1-5.3, when the Director determines that the vendor submitting the bid does not have the capability to fully perform, or lacks the integrity and reliability to assure good-faith performance."
- 20. ACCEPTANCE/REJECTION:** The State may accept or reject any bid in whole, or in part in accordance with W. Va. Code of State Rules § 148-1-4.5. and § 148-1-6.4.b."
- 21. 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.

22. INTERESTED PARTY DISCLOSURE: W. Va. Code § 6D-1-2 requires that for contracts with an actual or estimated value of at least \$100,000, the vendor must submit to the Purchasing Division a disclosure of interested parties to the contract, prior to contract award. That disclosure must occur on the form prescribed and approved by the WV Ethics Commission. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. "Interested parties" means: (1) A business entity performing work or service pursuant to, or in furtherance of, the applicable contract, including specifically sub-contractors; (2) the person(s) who have an ownership interest equal to or greater than 25% in the business entity performing work or service pursuant to, or in furtherance of, the applicable contract; and (3) the person or business entity, if any, that served as a compensated broker or intermediary to actively facilitate the applicable contract or negotiated the terms of the applicable contract with the state agency: Provided, That subdivision (2) shall be inapplicable if a business entity is a publicly traded company: Provided, however, That subdivision (3) shall not include persons or business entities performing legal services related to the negotiation or drafting of the applicable contract.

23. WITH THE BID REQUIREMENTS: In instances where these specifications require documentation or other information with the bid, and a vendor fails to provide it with the bid, the Director of the Purchasing Division reserves the right to request those items after bid opening and prior to contract award pursuant to the authority to waive minor irregularities in bids or specifications under W. Va. CSR § 148-1-4.6. This authority does not apply to instances where state law mandates receipt with the bid.

EXPRESSION OF INTEREST

Pine Bluff (Wilson) Refuse CRQS: DEP18*11

SECTION THREE: PROJECT SPECIFICATIONS

1. **Location:** Agency is located at 101 Cambridge Place, Bridgeport, WV 26330 and the Project is located in Harrison County, WV.

Directions to Site: From Shinnston, follow US 19 North to Marion County line. Turn left on CR-48, Bingamon Road. Travel for 0.8 miles to intersection with CR-48/8, Pine Bluff Road. Turn left and travel another 1.2 miles. The project area is on the right as evidenced by coal debris deposited along the road ditch and iron staining on the pavement.

39°25'33.5" -80°17'41.0"

2. **Background:** Firms are to be licensed Architectural/Engineering Firms (A/E) and should be familiar with and have a successful track record of design of similar projects. The anticipated contract will be for "full-service" A/E design. Aspects of the design are to include, but not be limited to, Civil, Structural, Geological and Hydrological.

The successful A/E will be responsible for Design of the following:

- Upgrade access as required.
- Protect area of the adjacent cemetery.
- Clear and grub affected areas.
- Regrade as necessary.
- Entomb acid-forming materials with on-site-available borrow material and away from any water source.
- Install drainage channels, underdrains, and/or other controls to safely convey water off-site.
- Condition and revegetate all disturbed areas.
- Obtain required permits NPDES PERMIT, MM109

Preliminary design documents will be due 60 calendar days from the issuance of the Purchase Order to the awarded vendor.

3. **Qualifications and Experience:** Vendors will provide information regarding its employees, such as staff qualifications and experience in completing similar projects; references; copies of any staff certifications or degrees applicable to this project;

EXPRESSION OF INTEREST

Pine Bluff (Wilson) Refuse CRQS: DEP18*11

proposed staffing plan; descriptions of past projects completed entailing the location of the project, project manager name and contact information, type of project, and what the project goals and objectives where and how they were met.

The response should be presented in concise format which defines the corporation history and the experience, qualifications, and performance data of the firm's staff as requested by the AML Consultant Qualification Questionnaire (CQQ), Attachment "B" and the AML and Related Project Experience Matrix (RPEM), Attachment "C".

AML Consultant Qualification Questionnaire (CQQ) should be completed and submitted with Vendor's submitted response to be eligible (See Attachment "B").

AML and Related Project Experience Matrix (RPEM) should also be completed and submitted with Vendor's submitted response to be eligible (See Attachment "C").

Electronic copies of the above referenced documents, Attachment "B" and Attachment "C" are available online at the wvOASIS Vendor Self Service portal.

4. Project and Goals: The project goals and objectives are:

- 4.1 Develop construction plans and technical specifications to remediate the abandoned mine land problem area known as Pine Bluff (Wilson) Refuse.**
 - 4.1.1 Design plans and develop specifications for site access.**
 - 4.1.2 Design plans and develop specifications for cemetery protection.**
 - 4.1.3 Design plans and develop specifications for limits of disturbance, storm water control and erosion and sediment prevention.**
 - 4.1.4 Design plans and develop specifications to regrade and entomb acid-forming materials with on-site-available borrow material and away from any water source.**
 - 4.1.5 Design plans and develop specifications for drainage channels, underdrains, and/or other controls to safely convey water off-site.**
 - 4.1.6 Design plans and develop specifications for all conditions encountered on project site.**

EXPRESSION OF INTEREST

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- 5. Oral Presentations:** During oral presentations, Vendors may not alter or add to their submitted proposal, but only clarify information. A description of the materials and information to be presented is provided below:

5.1. Materials and Information Required at Oral Presentation:

An Oral Presentation will be conducted with the three firms selected as the most qualified by the WVDEP Selection Committee. The Committee will schedule the interviews.

The format for the interviews will be a 15-30 minute PowerPoint presentation consisting, at a minimum, of the following:

- Corporate/personnel experience as it relates to the project or projects
- Proposed project management plan
- Key personnel available for the proposed work
- Proposed subcontractors (mapping, geotechnical, etc.)
- Product quality control
- Project cost control
- Project Schedule

EXPRESSION OF INTEREST

Pine Bluff (Wilson) Refuse CRQS: DEP18*11

SECTION FOUR: VENDOR PROPOSAL, EVALUATION, & AWARD

1. **Economy of Preparation:** EOI's should be prepared simply and economically, providing a straightforward, concise description of firm's abilities to satisfy the requirements and goals and objectives of the EOI. Emphasis should be placed on completeness and clarity of content. The response sections should be labeled for ease of evaluation.
 2. **BIDS MUST NOT CONTAIN PRICE QUOTATIONS:** The State shall select the best value solution according to §5G-1-3 of the West Virginia State Code. In accordance with the Code requirements, no "price" or "fee" information is requested or permitted in the bid response.
 3. **Evaluation and Award Process:** Expressions of Interest for projects estimated to cost \$250,000 or more will be evaluated and awarded in accordance with West Virginia Code §5G-1-3. That Code section requires the following:
 - 3.1. **Required Elements of EOI Response:** The director of purchasing shall encourage such firms engaged in the lawful practice of the profession to submit an expression of interest, which shall include a statement of qualifications, and performance data and may include anticipated concepts and proposed methods of approach to the project.
 - 3.2. **Public Advertisement:** All EOI requests shall be announced by public notice published as a Class II legal advertisement in compliance with the provisions of West Virginia Code §59-3-1 et seq.
 - 3.3. **Selection Committee Evaluation & Negotiation:** A committee comprised of three to five representatives of the agency initiating the request shall:
 - 3.3.1. Evaluate the statements of qualifications and performance data and other material submitted by the interested firms and select three firms which in their opinion are the best qualified to perform the desired service.
 - 3.3.2. Conduct interviews with each firm selected and the conduct discussions regarding anticipated concepts and the proposed methods of approach to the assignment.
 - 3.3.3. Rank in order of preference no less than three professional firms deemed to be the most highly qualified to provide the services required and shall
- Expression of Interest Standard Format

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commence scope of service and price negotiations with the highest qualified professional firm.

- 3.3.4. Should the agency be unable to negotiate a satisfactory contract with the professional firm considered to be the most qualified, at a fee determined to be fair and reasonable, price negotiations with the firm of second choice shall commence. Failing accord with the second most qualified professional firm, the committee shall undertake price negotiations with the third most qualified professional firm.
- 3.3.5. Should the agency be unable to negotiate a satisfactory contract with any of the selected professional firms, it shall select additional professional firms in order of their competence and qualifications and it shall continue negotiations in accordance with this section until an agreement is reached.
- 3.4. **Vendor Ranking:** All evaluation criteria is defined in the Procurement Specifications section and based on a 100 point total score. Points shall be assigned based upon the Vendor's response to the evaluation criteria as follows:

•	Qualifications	35 points
•	Experience	30 points
•	Oral Interview (See 5.1 under Section 3 of this EOI)	35 points
Total		100 points

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
AML CONSULTANT QUALIFICATION QUESTIONNAIRE**

Attachment "B"

PROJECT NAME Pine Bluff (Wilson) Refuse		DATE (DAY, MONTH, YEAR) 15-May-2018	FEIN 55-0637279
1. FIRM NAME 2. MSES Consultants, Inc.		3. HOME OFFICE BUSINESS ADDRESS 1000 Green River Drive Fairmont, WV 26554	4. FORMER FIRM NAME Same name since 1976
5. HOME OFFICE TELEPHONE 304-669-9642	6. ESTABLISHED (YEAR) 1976	6. TYPE OWNERSHIP Individual <input checked="" type="checkbox"/> Corporation Partnership <input type="checkbox"/> Joint-Venture <input type="checkbox"/>	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE
MSES Consultants, Inc., 1000 Green River Drive, Fairmont, WV 26554/ 6 AML design personnel

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM
Lawrence W. Rine, President
John J. Keeling, PE, Vice-President

8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS
Joan W. Rine, Secretary-Treasurer
304-669-9642

9. PERSONNEL BY DISCIPLINE

3 ADMINISTRATIVE	3 ECOLOGISTS	1 LANDSCAPE ARCHITECTS	2 STRUCTURAL ENGINEERS
1 ARCHITECTS	2 ECONOMISTS	2 MECHANICAL ENGINEERS	4 SURVEYORS
2 BIOLOGIST	2 ELECTRICAL ENGINEERS	2 MINING ENGINEERS	1 TRAFFIC ENGINEERS
8 CADD OPERATORS	4 ENVIRONMENTALISTS	0 PHOTOGRAMMETRISTS	6 OTHER - ENG. TECH.
2 CHEMICAL ENGINEERS	5 ESTIMATORS	1 PLANNERS: URBAN/REGIONAL	SCIENTIST, DESIGNERS
5 CIVIL ENGINEERS	1 GEOLOGISTS	1 SANITARY ENGINEERS	
4 CONSTRUCTION INSPECTORS	4 HISTORIANS	1 SOILS ENGINEERS	
8 DESIGNERS	1 HYDROLOGISTS	1 SPECIFICATION	
0 DRAFTSMEN		1 WRITERS	
			72 TOTAL PERSONNEL

* See CAD Operators

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 4 Civil
*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.

10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? ☐ YES ☐ NO THIS IS NOT A JOINT VENTURE

11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Qualification Questionnaire"			
NAME:	ADDRESS:	SPECIALTY:	

[illegible]

12. Is your firm's personnel experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering? 19?

YES Description and Number of Projects: 45 projects

In MSES's experience with abandoned mine land and related design services for municipal solid waste landfills it became evident that federal regulations enacted in late 1980's to upgrade the nations municipal solid waste landfills had a significant impact on West Virginia abandoned mine reclamation and remediation. The acquisition, earthwork, storm water management and revegetation conditions of the West Virginia Solid Waste Management Rule (33CSR1) for landfills parallel West Virginia Surface Mining and Reclamation Rule 38CSR2 for Surface Mining and Abandoned Mine land Reclamation Rule 59CSR1. Most of the 60 plus municipal solid waste landfills in West Virginia at the time of the federal regulation were sited on abandoned mine lands. The hydrologic and geologic studies, NPDES permitting and designs to retrofit and/or close these landfills employed the same engineering and soil analysis necessary to the reclamation and closure of abandoned mine sites. Some of MSES's most significant abandoned mine land projects are:

Dola Abandoned Refuse Area reclamation with short paper fiber and acid mine drainage runoff control. Included design and certification of drainage channels and sediment ponds

Martinka Mine Refuse Area reclamation and AMD runoff control including surface water drainage structure design and certification and AMD seep collection and isolation

S&S Grading, Inc. abandoned surface mine and deep mine with sub-standard landfill converted to a Municipal Solid Waste (MSW) landfill with managed acid mine drainage in compliance with 33CSR1. Included 360 acre drainage area hydrologic study of 10, 25 and 100 year 24 hour pre and post storm events with design and certification of all channels, down chutes and sediment and storm water control basins and discharge structures

Meadowfill Landfill Inc., Sub-standard MSW and Asbestos waste landfill located on abandoned surface mine and deep mine converted to a MSW landfill with managed and treated acid mine drainage in compliance with 33CSR1. Included 290 acre drainage area hydrologic study of 10, 25 and 100 year 24 hour pre and post storm events with design and certification of all channels, down chutes and sediment and storm water control basins and discharge structures

Clarksburg Landfill, A sub-standard MSW landfill located on an abandoned surface mine and deep mine converted to a MSW landfill with managed and treated acid mine drainage in compliance with 33CSR1. Included 200+ acre drainage area hydrologic study of 10, 25 and 100 year 24 storm events with design and certification of all channels, down chutes, borrow areas and sediment and storm water control basins and discharge structures

Meadowfill Landfill mine subsidence investigation and control for construction of overlying landfill liner systems. Predicted quantity of overburden and procedures for daylighting, grouting or controlled dynamic subsidence of abandoned deep mining and auger mining with management and treatment of released mine pools.

Browning-Ferris Industries Bioremediation Study for the Beneficial Use of Short Paper Fiber. End result of the study was the design to apply short paper fibers (SPF) primarily used for reclamation of surface mining, municipal solid waste landfilling, quarrying and coal mine refuse areas, i.e., at Martinka Mine Refuse Pile, Sentinel Mine Refuse pile, and the abandoned Spelter Zinc plant.

Sabic Innovative Plastics Soil borrow area and industrial waste landfill construction, closure and reclamation design and construction quality assurance. Designed erosion and sediment control plan to control -200 mesh soil particles using West Virginia Best Management Practices manuals and West Virginia NPDES design requirements.

Banner Fiberboard Industrial waste landfill located on abandoned surface mine site investigation and design for closure and reclamation.

Elkins-Randolph County Landfill deep mine and auger mine grout project design underway to prevent fluid migration into or from the abandoned mine workings.

NO

Is your firm experienced in Soil Analysis?

YES Description and Number of Projects:

Benedum Airport Runway Expansion onto abandoned surface mine area. Performed site soils evaluation and quantification for collection, isolation and entombment of acid soils and placement of treated soils to support vegetation.

Elkins/Randolph County Landfill was cited on an active surface mine with the surface mining permit being converted to a landfill as final use. MSES performed a site characterization study for the WVDEP landfill Closure assistance Program (LCAP) to identify and quantify site soils available to cap and entomb an inactive municipal solid waste landfill. The entire site was previously surfaced mined, deep mined and auger mined. MSES executed a geophysical assay combined with drilling and test pit excavation to identify extents of mining and availability of suitable soils for backfill, acid soils isolation, structural fill and vegetative cover.

MSES has performed borrow studies of inactive excavation site/surface mine sites in northern West Virginia to identify physical and chemical soil characteristics suitable for processing into low permeability clays, clayey silts, silty clays and silts for construction soil barriers to isolate waste materials. Analysis primarily employed ASTM D4718 and D698-91 Moisture Density relationship; ASTM D422-63 Sieve and Hydrometer grain size analysis USCS Classification and USDA Classification Chart.

MSES has performed remediation and soils separation studies of commercial development sites in northern West Virginia to identify physical and chemical soil characteristics suitable for processing into high permeability silty sands, sands and gravel for natural drainage systems to control surface and infiltration storm water flows. Analysis primarily employed Grain size Analysis and acid production potential according to EPA-600/2-78-054 Field and laboratory methods Applicable to Overburden and Mine Soils procedure number 3.2.3, Neutralization Potential. Analysis and design to control storm events was performed using Carlson Civil Suite, SEDCAD4 and HELP3 computer models.

Kroger store siting across West Virginia

Waste Management, Inc. Site Characterization Studies of landfill/abandoned mine land sites across West Virginia to determine acceptability for WVDEP permitting

Sabic Innovative Plastics in Wood County West Virginia borrow area study of a 200 acre area to determine quantity and quality of soils for structural soil placement and vegetative support

Soil and biological study, site evaluations to design and obtain USACE and WVDNR 404 and 401 permits for wetlands remediation for the United Hospital Center

Soils and biological study and site evaluation to design wetlands remediation for storm water management and sedimentation control structures at the Meadowfill Landfill and to treat acid mine drainage for removal of aluminum and iron.

Design and construction supervision of a 200,000 cubic yard slip repair, remediation and reclamation in Wetzel County including collection and control of subsurface water.

NO

Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects:

MSES has performed multiple hydrologic studies employing SEDCAD 4, HEC-RAS, Carlson Civil Suite, Eagle point computer programs as well as manual evaluation and quality check of computer output using TR-55 and Rational Method work sheets. By using aerial or field developed contour mapping field identification of ground cover, drainage pattern verification, flood elevation and NRCS Web Soil Survey MSES will select an appropriate method for predicting various design storm flows and total runoff quantity. Generally MSES uses the NRCS previously SCS TR-55 methodology for drainage areas of 100 or more acres and the Rational method for drainage areas of up to 50 acres or less. Either method is applied for drainage areas of 50 to 100 acres depending on ground cover and historical rainfall cell occurrences. When necessary to route river flooding and drainage areas measured in square miles MSES will employ the HEC-RAS program and/or regressive analysis developed by the US Army Corps of Engineers. These methods are applied to every project to balance pre and post peak flows, control storm water through the project and prevent erosion.

City of Beckley retained MSES to perform a hydrologic study to predict 100 year 24 hour floods and design culverts and storm sewer systems for management for approximately 200 acre drainage area for the western limits of the city. Including a design to create a roof top rain garden at City Hall.

MSES has performed numerous FEMA studies to identify base flood elevations and develop LOMC's and LOMA's for flood structures within flood plains throughout West Virginia

Morgantown Industrial Park retained MSES to perform a 500 acre drainage area hydrologic study to predict storm flows and design storm water management structures and Best Management Practices (BMP) for state environmental and NPDES permits and for sediment and erosion control.

Elkins/Randolph County Landfill 100 plus acre study for storm water management and erosion sediment control and secure state environmental and NPDSE permits.

Tucker County 100 acre plus hydrologic study to develop an Erosion and sediment Control Plan for the Tucker County landfill.

Design storm water management and erosion control plans with structures for runoff containment capacity and peak flow discharge capacity for single and multiple discharge structures to contain 2 year, 10 year, 25 year and 100 year multiple hour and hourly peak flows. Perform dewatering time calculations to maintain dry storage too minimize TSS in discharge flows. Major projects were Meadowfill Landfill on abandoned mine land, S&S landfill on abandoned mine land, Northwestern landfill, Tucker County landfill on abandoned quarry, Dola Site Reclamation on abandoned mine refuse using short paper fiber, Sentinel mine refuse for short paper fiber use to reclaim refuse pile and Banner Fiberboard landfill on abandoned mine land.

Southern West Virginia Mingo County 2009 flood disaster study of a 2500 acre drainage areas with testimony regarding flood damage suits.

NO

Does your firm produce its own Aerial Photogr / and Develop Contour Mapping?

YES Description and Number of Projects:

MSES has state of art GPS, GIS, CADD, computers, plotters and related equipment to produce full color mapping to any standard design and construction map scales and paper size. MSE can survey field control points and sections to develop and ground truth mapping developed through aerial photography or LIDAR. MSES can perform construction layout and as-built surveys of detailed piping, excavation and civil construction projects.
MSES during its 42 year history has continuously performed surveying and contour mapping based on field coordinate surveying, LIDAR and aerial photography to aid in hydrologic and earthwork designs which encompass a major portion of our design services.
Many of MSES' projects, whether investigating AMD effected mine land or developing reclamation plans for abandoned mine lands, begin with an accurate contour map. MSES typically maps more than 100,000 acres annually throughout the mid-Atlantic states. This mapping consists of areas as small as 5 acres, to tracts as large as 38,200 acres. MSES has the staff to perform title searches of land and mined rights, mapping land and mineral boundaries and participating in court depositions for land and mineral valuations. MSES has also performed infrared mapping to locate mine seeps and methane releases. For more detailed explanations and concise project descriptions refer to the supplemental information provided by Item 19 of this questionnaire.

NO

E. Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)

YES Description and Number of Projects:

USDA NRCS Water Resources Studies and Comprehensive Watershed Management Plans: MSES recently completed a five year contract to provide comprehensive planning for water resources (groundwater and surface water supplies, water reservoirs, and water treatment and distribution systems) within West Virginia counties and geographic area, which included establishing present water system resources and conditions and providing comprehensive plans to upgrade the raw water, water treatment, and water distribution systems and provide for their future expansion, as necessary. This involved extensive data collection and detailed plant assessments in order to establish existing conditions and inadequacies, and, from this information, the development of long range plans for each system to correct their identified deficiencies. The plans also provided preliminary design and funding assessments, and were organized in a format which could be applied directly to requests for funding via grants and loans from various State and Federal programs.

Clarksburg Water Board: MSES performed a design to size and verify a 2.5 mile water line extension along Dawson Creek road in Harrison County

Meadowfill Landfill: Designed and certified installation of a dual contained 8 inch PE pipe with pump system with cleanout access to convey contaminated water against a 120 psi head from Meadowfill landfill located on abandoned mine lands to the Clarksburg Waste Water Treatment plant. The line was approximately 10,000 feet in length and crossed several properties including the US CJIS fingerprint identification facility in Harrison County.

Brown-Ferris Industries (now Republic Services): MSES designed and certified a prototype gravity fed AMD treatment system at the Sentinel mine. The system received AMD through a combination of adjustable flow manholes that would recycle between treatment batch beds to allow maintenance or adjustment while continuously operating. The system performed but was abandoned when Browning-Ferris became Republic Services.

MSES designed and installed groundwater monitoring well systems at Waste Management Inc. landfills on abandoned mine lands in West Virginia and historically sampled the wells and compared them to background and inter-network wells to monitor for aquifer pollutants release and travel. The systems were designed by performing a combination of field reconnaissance, non-invasive geophysical investigations and core drilling to identify sub-strata, mining presence, water bearing strata and geographic dip. With this information a monitoring well network was designed to monitor up gradient and down gradient flows and chemical composition of groundwater. MSES has groundwater well installers licensed in West Virginia.

NO

Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?

YES Description and Number of Projects:

Many of the MSES staff members to be assigned to this project have been a project team for acid mine drainage (AMD), water treatment and remediation throughout West Virginia since 1984. The team to be assigned has experience in acid mine drainage, planning, design, permitting, and West Virginia water laboratory certifications, WVU guest lecturing on AMD treatment, and management of AMD projects. AMD treatment and remediation experience consists of design planning, collection/conveyance/treatment, maintenance, and land area beneficial reuse. Most of the staff are Geosynthetic Accreditation Institute-Certified Geosynthetic Professionals, Certified Monitoring Well Designers/Drillers, Registered Professional Engineers, and Professional Land Surveyors. Recent projects are:

Meadowfill Wetlands for USACE to capture acid mine drainage and reduce iron and aluminum in discharge from a 200 plus acre drainage area.

United Hospital center wetlands remediation to use abandoned surface mine bench with acid mine flows for wetlands sustenance and passive acid mine drainage treatment

Drilling program to determine extent of deep mining and mine pools under the Meadowfill landfill and surrounding properties including the adjacent FBI Criminal Justice Identification System complex. Design to daylight and perform a controlled release of the acid mine drainage pool through a system of wetlands and sedimentation ponds.

Perform multiple year sampling and flow measurement via flumes and weirs to analyses loading of Iron, aluminum and manganese loading in waters from various sites in northern West Virginia effected by acid mine drainage. Use this data to design storm water management structures and passive acid mine drainage treatment systems to reduce metal loading from the site and continue monitoring for five years with annual reports to USACE.

Retained b Sabic Innovative Plastics, Inc. to investigate background levels of Iron and Aluminum in soil borrow aeas. Designed and performed a monitoring plan to identify effects of site soils on storm water pond discharges. Developed a seeding program and series of pond baffles to reduce effects of site soils and increase residence time for reduction of TSS.

Browning Ferris (now Republic Services) Designed a passive gravity fed AMD treatment system at Sentinel Mine using a medium of short paper fibers. The system used a series of adjustable inflow and discharge structures capable of reversing or bypassing flow to assist with treatment adjustments and maintenance. The system performed initially but was abandoned when Browning Ferris changed ownership.

Design of a groundwater collection system at the Meadowfill Landfill and S&S Landfill to isolate and collect AMD seeps separate from other groundwater sources

NO

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

NAME & TITLE (Last, First, Middle Int.)

Keeling, John J.

PE, CIH, QEP, CSP, LRS

Principal and Project Manager

YEARS OF EXPERIENCE

YEARS OF AML DESIGN EXPERIENCE:

29

YEARS OF AML RELATED DESIGN EXPERIENCE:

31

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

31

Brief Explanation of Responsibilities

Mr. Keeling will be the Project Principal and Senior Project Manager for this AMD Mine Drainage and Special Reclamation Project. He will be responsible to the West Virginia Office of Abandoned Mine Lands for schedules, quality of work, and budgets

EDUCATION (Degree, Year, Specialization)

To assist the reviewer of this questionnaire, a brief one-page professional vita is provided at the end of this page for John J. Keeling.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

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

NAME & TITLE (Last, First, Middle Int.)

Muncy, Charles H. "Sam", Jr.

BS, MS, PE, PS

Senior Project Engineer

YEARS OF EXPERIENCE

YEARS OF AML DESIGN EXPERIENCE:

26

YEARS OF AML RELATED DESIGN EXPERIENCE:

32

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

32

Brief Explanation of Responsibilities

Mr. Muncy will be the Senior Project Engineer, and will be directly involved in all aspects of this Project. He will be assigned full time to this project, and will be part and the lead of the Design Team, responsible for hydrology, grading and AMD management, and supervision of these activities on a day-to-day basis, to ensure timely, accurate, and usable information. Mr. Muncy will assist Mr. Keeling in the overall management of the project.

Before joining MSES, Mr. Muncy was the Chief Environmental Engineer for the Southern Ohio Coal County Martinka Mine near Fairmont, WV. His duties were to design and operate the AMD facilities for the deep mine portal, and Powell and Sand Bank refuse piles

EDUCATION (Degree, Year, Specialization)

To assist the reviewer of this questionnaire, a brief one-page professional vita is provided at the end of this page for Charles H. "Sam" Muncy, Jr.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

PROFESSIONAL VITAE

John J. Keeling, P.E., C.I.H., C.S.P., Q.E.P., L.R.S.
Principal and Project Manager

Years of Experience with MSES: 29 Years of Experience with Other Firms: 15
Education

B. S. Civil Engineering, University of Kentucky, 1974

Professional Registrations/Certifications

Registered Professional Engineer - West Virginia, Kentucky, and Maryland
Certified Industrial Hygienist - American Board of Industrial Hygiene
Certified Safety Professional - Board of Certified Safety Professionals
Qualified Environmental Professional - Institute of Professional Environmental Practice
Licensed Remediation Specialist - West Virginia, New York, and Ohio
Certified Visible Emissions Observer - USEPA
Licensed Asbestos Inspector/Management Planner/Clearance Air Monitor - WVBOH
Certified Code Official & Building Plans Code Reviewer - West Virginia State
Fire Marshall

Professional Organizations

American Society of Safety Engineers
American Industrial Hygiene Association
Air and Waste Management Association
Harrison County SARA Title III Local Emergency Planning Committee - Chairman
West Virginia Chapter of Air and Waste Management Association - Former Chairperson
Fairmont State University, Technology Advisory Committee Member

Experience Summary

- | | |
|--|---|
| <input type="checkbox"/> Job Costing | <input type="checkbox"/> Air Emission Regulatory Compliance |
| <input type="checkbox"/> Management | <input type="checkbox"/> NPDES Permitting |
| <input type="checkbox"/> Earth Sciences | <input type="checkbox"/> Waste Management/Minimization |
| <input type="checkbox"/> Risk Assessment/Analysis | <input type="checkbox"/> Hazardous Waste Management |
| <input type="checkbox"/> Regulatory Interaction | <input type="checkbox"/> Air Emission Modeling |
| <input type="checkbox"/> Economic Feasibility | <input type="checkbox"/> Asbestos Assessment |
| <input type="checkbox"/> Phase I/II Investigation | <input type="checkbox"/> Lead Base Paint Assessment |
| <input type="checkbox"/> Remediation (Design and Permitting) | <input type="checkbox"/> NORM Assessment |
| <input type="checkbox"/> RCRA Waste Units | <input type="checkbox"/> Brownfields Specialist |
| <input type="checkbox"/> Drilling Programs | <input type="checkbox"/> Health & Safety |
| <input type="checkbox"/> Bioremediation | <input type="checkbox"/> Noise Assessment |
| <input type="checkbox"/> Geographic and Hydrologic Studies | <input type="checkbox"/> Hydrologic and Hydraulic Analysis |
| <input type="checkbox"/> Sampling/Laboratory Programs | <input type="checkbox"/> SARA Title III |
| <input type="checkbox"/> Air Permitting | <input type="checkbox"/> Specification Development |
| <input type="checkbox"/> Indoor Air Quality | <input type="checkbox"/> Earth Sciences |
| <input type="checkbox"/> Code Compliance | <input type="checkbox"/> Groundwater Protection Plans |
| <input type="checkbox"/> Environmental/Architectural Support | <input type="checkbox"/> E-911 Systems |
| <input type="checkbox"/> GIS Systems | <input type="checkbox"/> HEC - RAS & SEDCAD Modeling |
| <input type="checkbox"/> Flood Routing/Flood Plain Analysis | <input type="checkbox"/> Hydrostatic Test Waters |
| <input type="checkbox"/> Impoundments | <input type="checkbox"/> Permitting · Compliance |
| Siting · Design · Construction | <input type="checkbox"/> Impoundments |
| <input type="checkbox"/> SPCC Plan | Earth · Lined · Concrete |
| <input type="checkbox"/> E&S Plan and Stormwater | <input type="checkbox"/> Spill Response |
| <input type="checkbox"/> UST · AST Tanks | <input type="checkbox"/> Cathodic Protection Systems |
| Siting · Permitting · Inspections · Registration | |

MSES



PROFESSIONAL VITAE

Charles H. "Sam" Muncy, Jr., P.S., P.E., MSCE
Senior Project Manager

Years of Experience with MSES: 26 Years of Experience with Other Firms: 16

Education

B. S. Civil Engineering, West Virginia University, 1974
M. S. Civil Engineering, West Virginia University, 1983

Professional Registrations/Certifications

Registered Professional Engineer - West Virginia, Pennsylvania, Florida, North Carolina, Ohio, and Virginia
Professional Surveyor - West Virginia
Certified Compaction Technician - West Virginia Department of Highways
Radiation Safety Officer - NRC
Licensed Remediation Specialist - New York, Ohio, West Virginia
Certified Monitoring Well Designer and Installer - WVDEP
Certified Landfill Manager - SWANA
Geosynthetic Accreditation Institute - Clay & Geo Synthetic Liners
Florida Real Estate License
Operator Qualification - USDOT

Professional Organizations

American Society of Civil Engineers
Solid Waste Association of North America
Barbour County, WV Solid Waste Authority - Past Member
Gundle Liner Seminars and Workshops

Past Work History

Joyce Engineering
Harman Construction, Inc.
Southern Ohio Coal Company
American Electric Power Service Corporation
Mountain State Surveying

Experience Summary

- | | |
|---|---|
| <input type="checkbox"/> Project Management | <input type="checkbox"/> Risk Assessment/Analysis |
| <input type="checkbox"/> Regulatory Interaction | <input type="checkbox"/> Phase I & II Investigation |
| <input type="checkbox"/> Remediation (Design & Permitting) | <input type="checkbox"/> RCRA Waste Units |
| <input type="checkbox"/> Sampling/Laboratory Programs | <input type="checkbox"/> Data Base Systems |
| <input type="checkbox"/> Computer Modeling (H&H Studies) | <input type="checkbox"/> Life Safety Codes |
| <input type="checkbox"/> Specification Development | <input type="checkbox"/> Job Costing |
| <input type="checkbox"/> Property Evaluation | <input type="checkbox"/> Site Surveys |
| <input type="checkbox"/> Mapping | <input type="checkbox"/> QA/QC Inspection & Compliance |
| <input type="checkbox"/> Economic Feasibility Investigation | <input type="checkbox"/> Structural |
| <input type="checkbox"/> Soils Engineering | <input type="checkbox"/> Earth Sciences |
| <input type="checkbox"/> Storm Routing Studies | <input type="checkbox"/> Geographic and Hydrologic Analysis |
| <input type="checkbox"/> Spill Response | <input type="checkbox"/> Groundwater Protection Plans |
| <input type="checkbox"/> SPCC Plans | <input type="checkbox"/> Land Planning |
| <input type="checkbox"/> Site Development | <input type="checkbox"/> Subsurface Investigation |
| <input type="checkbox"/> Roadway/Highway | <input type="checkbox"/> NPDES Permitting |
| <input type="checkbox"/> Bioremediation | <input type="checkbox"/> Stormwater Management |
| <input type="checkbox"/> Erosion & Sediment Planning | <input type="checkbox"/> Civil/Architectural Support |
| <input type="checkbox"/> Waste Management/Minimization | <input type="checkbox"/> Structural/Architectural Support |
| <input type="checkbox"/> Code Compliance | <input type="checkbox"/> HEC-RAS Computer Modeling |
| <input type="checkbox"/> SEDCAD Computer Modeling | <input type="checkbox"/> GPS/GIS Surveys and Mapping |
| <input type="checkbox"/> Hydrologic and Hydraulic Analysis | <input type="checkbox"/> Impoundment Inspections |
| <input type="checkbox"/> Impoundments\ Designs | <input type="checkbox"/> Liner · Leak Detection · Stability |
| Freshwater · Waste · Leachate · Slurry | |
| <input type="checkbox"/> UST · AST Tanks | |
| Siting · Permitting · Inspections · Registration | |

MSES



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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Tennant, Rex B., II BS, BS Environmental Chemist/ Programmer	22	25	25

Brief Explanation of Responsibilities

Mr. Tennant's chemistry and laboratory analytical background will be utilized in developing prudent and decisive sampling programs for methane, soils, groundwater, sanitary wastewater, AMD, and other media encountered within the mine site. In addition, Mr. Tennant will provide the review and interpretation of sampling and analytical results for the project. His information will be utilized in designing the reclamation, acid materials entombment and the AMD management systems.

EDUCATION (Degree, Year, Specialization)

To assist the reviewer of this questionnaire, a brief one-page professional vita is provided at the end of this page for Rex B. Tennant, II.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)

Rex B Tennant, II

Environmental Chemist/Programmer

Years of Experience with MSES: 22 Years of Experience with Other Firms: 24

Education

B. S., Chemistry, West Virginia University, 1972

B. S., Computer Science, Salem College (now Salem-Teikyo University), 1986

Professional Organizations

American Chemical Society

Past Work History

Sturm Environmental Services - Chemist, Lab Manager, Lab Director, Vice President

U. S. Army Environmental Hygiene Agency - Chemist

Southern Ohio Coal Company - Environmental Technician

U. S. Army Environmental Hygiene Agency - Lab Technician

Experience Summary

- | | |
|--|---|
| <input type="checkbox"/> Management | <input type="checkbox"/> Computer Modeling |
| <input type="checkbox"/> Regulatory Interaction | <input type="checkbox"/> Computer Programming |
| <input type="checkbox"/> Phase I/II Investigation | <input type="checkbox"/> NPDES Permitting |
| <input type="checkbox"/> Remediation (Design and Permitting) | <input type="checkbox"/> Hazardous Waste Management |
| <input type="checkbox"/> RCRA Waste Units | <input type="checkbox"/> Air Emission Modeling |
| <input type="checkbox"/> Sampling/Laboratory Programs | <input type="checkbox"/> Brownfields Specialist |
| <input type="checkbox"/> Data Base Systems | <input type="checkbox"/> CAD/Intergraph/CAM |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Indoor Air Quality |
| <input type="checkbox"/> Risk Assessment/Analysis | <input type="checkbox"/> SARA Title III |
| <input type="checkbox"/> Water/Wastewater Treatment | <input type="checkbox"/> Lead Base Paint Assessment |
| <input type="checkbox"/> Data Processing | <input type="checkbox"/> Data Management |
| <input type="checkbox"/> Training | <input type="checkbox"/> GIS Support |
| <input type="checkbox"/> Mold and Fungi | <input type="checkbox"/> NACE Internal Corrosion |

MSES



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

NAME & TITLE (Last, First, Middle Int.)

Trembly, Daniel L.
AS Land Surveying
Field Coordinator
Field Survey and Mapping

YEARS OF EXPERIENCE

YEARS OF AML DESIGN EXPERIENCE:

7

YEARS OF AML RELATED DESIGN EXPERIENCE:

28

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

28

Brief Explanation of Responsibilities

Mr. Trembly will be the lead surveyor and field mapping coordinator assigned to this remediation project. He will be in charge and with MSES staff survey crew members, will perform the on-site surveys for property boundary location and marking, grading stakes and site mapping, through the construction as-built surveys.

EDUCATION (Degree, Year, Specialization)

To assist the reviewer of this questionnaire, a brief one-page professional vita is provided at the end of this page for Daniel L. Trembly.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Daniel L. Trembly, P.S.
Field Coordinator / Survey Crew Leader

Years of Experience with MSES: 7 **Years of Experience with Other Firms:** 24

Education

A. S., Land Surveying, Glenville State College, 1989

Professional Registrations/Certifications

Professional Surveyor - Pennsylvania
Professional Surveyor - West Virginia
Operator Qualification - USDOT
Wirt County, West Virginia - County Surveyor
Certified Compliance Inspector Stormwater - Pending

Professional Organizations

West Virginia Association of Land Surveyors, Member

Past Work History

TNT Surveying, LLC
Board Surveying

Experience Summary

- | | |
|---|--|
| <input type="checkbox"/> Project Management | <input type="checkbox"/> Regulatory Interaction |
| <input type="checkbox"/> Data Base Systems | <input type="checkbox"/> Computer Modeling |
| <input type="checkbox"/> Species Identification | <input type="checkbox"/> Property Evaluation |
| <input type="checkbox"/> Site Surveys | <input type="checkbox"/> Mapping |
| <input type="checkbox"/> Sampling and Data Collection | <input type="checkbox"/> QA/QC Inspection & Compliance |
| <input type="checkbox"/> Specification Development | <input type="checkbox"/> Site Development |
| <input type="checkbox"/> Civil/Architectural Support | <input type="checkbox"/> Transportation |
| <input type="checkbox"/> Flood Plain | <input type="checkbox"/> GIS Surveys/Mapping |
| <input type="checkbox"/> GPS Surveys | <input type="checkbox"/> Municipal |
| <input type="checkbox"/> E-911 Surveys | <input type="checkbox"/> As-Built FERC Surveys |
| <input type="checkbox"/> Construction Layout | <input type="checkbox"/> Property Surveys |

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

NAME & TITLE (Last, First, Middle Int.)

Cottrill, Sharon R.

BS

Land Planner

YEARS OF EXPERIENCE

YEARS OF AML DESIGN EXPERIENCE:

38

YEARS OF AML RELATED DESIGN EXPERIENCE:

38

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

38

Brief Explanation of Responsibilities

Ms. Cottrill will be the Project Team member involved in assembling the collected site information to develop readable, usable, and understandable site mapping and construction design drawings and plans. Ms. Cottrill and her staff of seven (7) CADD drafters will be an integral part of this special reclamation project. She will serve as the QA/QC reviewer of all drafting documents

EDUCATION (Degree, Year, Specialization)

To assist the reviewer of this questionnaire, a brief one-page professional vita is provided at the end of this page for Sharon R. Cottrill.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

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

NAME & TITLE (Last, First, Middle Int.)

Rine, Lawrence M.

BS, BS, MS

Principal and Quality Assurance/Quality Control Manager

YEARS OF EXPERIENCE

YEARS OF AML DESIGN EXPERIENCE:

42

YEARS OF AML RELATED DESIGN EXPERIENCE:

44

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

44

Brief Explanation of Responsibilities

At MSES, the accuracy and quality of work are taken very seriously. An MSES senior/principal is assigned as the Project QA/QC Officer for all of MSES' projects. Mr. Rine has performed as MSES' QA/QC Officer for many of the special reclamation projects undertaken by MSES to date. The assigning of a senior corporate officer ensures that the scheduling and the budget dollars needed to accomplish a project are strictly adhered to

EDUCATION (Degree, Year, Specialization)

To assist the reviewer of this questionnaire, a brief one-page professional vita is provided at the end of this page for Lawrence M. Rine.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Sharon Reeves Cottrill

Land Planner/Mapping Coordinator

Years of Experience with MSES: 38 **Years of Experience with Other Firms:** 4

Education

B. S. Landscape Architecture, West Virginia University (Cum Laude), 1976

Professional Organizations

West Virginia Society of Landscape Architects

Past Work History

CNG Transmission Corporation

Experience Summary

- | | |
|--|---|
| <input type="checkbox"/> Project Management | <input type="checkbox"/> Species Identification |
| <input type="checkbox"/> Data Base Systems | <input type="checkbox"/> Computer Modeling |
| <input type="checkbox"/> CAD/Intergraph/CAM | <input type="checkbox"/> Illustrations |
| <input type="checkbox"/> Regulatory Interaction | <input type="checkbox"/> Job Costing |
| <input type="checkbox"/> Specification Development | <input type="checkbox"/> Mapping |
| <input type="checkbox"/> Land Planning | <input type="checkbox"/> Site Development |
| <input type="checkbox"/> Code Compliance | <input type="checkbox"/> Architectural Support |
| <input type="checkbox"/> Civil Support | <input type="checkbox"/> E-911 Mapping |
| <input type="checkbox"/> GIS Mapping | <input type="checkbox"/> GPS Data Management |
| <input type="checkbox"/> Data Processing | <input type="checkbox"/> 911 Re-addressing |
| <input type="checkbox"/> ArcInfo | <input type="checkbox"/> ArcView |
| <input type="checkbox"/> Flood Routing | <input type="checkbox"/> Flood Plain Mapping |
| <input type="checkbox"/> Watershed Mapping | <input type="checkbox"/> HEC - RAS & SEDCAD Mapping |

MSES



Lawrence M. Rine

Principal and Quality Assurance/Quality Control Manager

Years of Experience with MSES: 42 Years of Experience with Other Firms: 14

Education

- B. S. Mechanical Engineering, West Virginia Institute of Technology 1969
- B. S. Mining Engineering, West Virginia Institute of Technology 1970
- Masters Study, Environmental Engineering, Cornell University 1973

Professional Registrations/Certifications

- Certified Monitoring Well Designer and Installer - WVDEP
- Licensed West Virginia Underground Storage Tank Closure/Installation Specialist
- Class I Certified Public Water Supply Operator, West Virginia
- Class II Certified Wastewater Treatment Plant Operator, West Virginia
- Certified Commercial Applicator, West Virginia and Pennsylvania
- Radiation Safety Officer - NRC
- Certified Asbestos Inspector/Manager/Planner/Clearance Air Monitor - WVBOH
- Licensed Remediation Specialist - WVDEP
- Certified Mineral Appraiser - U. S. Army Corps of Engineers
- Member State School Building Authority - Indoor Air Quality Committee
- Geosynthetic Accreditation Institute - Clay & Geo Synthetic Liners

Professional Organizations

- West Virginia Independent Oil and Gas Association (Environmental Committee Member)
- Virginia Independent Oil and Gas Association (Association's Outstanding Member, 1990)
- Pennsylvania Independent Oil and Gas Association
- National Society of Professional Engineers
- West Virginia Society of Professional Engineers, T. Moore Jackson Chapter
- West Virginia Surface Mine and Reclamation Association

Past Work History

CNG Transmission Corporation

Experience Summary

- | | |
|--|--|
| <input type="checkbox"/> Job Costing | <input type="checkbox"/> Waste Management/Minimization |
| <input type="checkbox"/> Management | <input type="checkbox"/> Hazardous Waste Management |
| <input type="checkbox"/> Groundwater Modeling/Monitoring | <input type="checkbox"/> Asbestos Assessment |
| <input type="checkbox"/> Earth Sciences | <input type="checkbox"/> Lead Base Paint Assessment |
| <input type="checkbox"/> Risk Assessment/Analysis | <input type="checkbox"/> NORM Assessment |
| <input type="checkbox"/> Regulatory Interaction | <input type="checkbox"/> Brownfields Specialist |
| <input type="checkbox"/> Economic Feasibility | <input type="checkbox"/> Mapping |
| <input type="checkbox"/> Phase I/II Investigation | <input type="checkbox"/> Noise Assessment |
| <input type="checkbox"/> Remediation (Design and Permitting) | <input type="checkbox"/> SARA Title III |
| <input type="checkbox"/> RCRA Waste Units | <input type="checkbox"/> Specification Development |
| <input type="checkbox"/> Drilling Programs | <input type="checkbox"/> Environmental Impact Statements |
| <input type="checkbox"/> Bioremediation | <input type="checkbox"/> Data Processing |
| <input type="checkbox"/> Sampling/Laboratory Programs | <input type="checkbox"/> Public Mtg. & Proj. Explanation |
| <input type="checkbox"/> Property Evaluations | <input type="checkbox"/> QA/QC Inspection & Compliance |
| <input type="checkbox"/> NPDES Permitting | <input type="checkbox"/> Architectural Support |
| <input type="checkbox"/> Municipal Engineering | <input type="checkbox"/> Radon |
| <input type="checkbox"/> Code Compliance | <input type="checkbox"/> Water/Wastewater Systems |
| <input type="checkbox"/> E-911 Systems | <input type="checkbox"/> GIS Systems/Data Management |
| <input type="checkbox"/> Flood Modeling | <input type="checkbox"/> FEMA Mapping |
| <input type="checkbox"/> Stormwater Management | <input type="checkbox"/> E&S Planning |

MSES



13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES
data but keep to essentials)

RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete)

NAME & TITLE (Last, First, Middle Int.)

Saas, Louis P., Jr.

AS, BS

Project Engineer

YEARS OF AML DESIGN EXPERIENCE:

20

YEARS OF EXPERIENCE

YEARS OF AML RELATED DESIGN EXPERIENCE:

23

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

23

Brief Explanation of Responsibilities

Mr. Saas has a diverse background in construction document preparation and the oversight of construction activities. He will be part of the MSES Team who will assure that the design adheres to local, state and national codes and regulations. And if needed, serve to assure the selected contractor is accomplishing the construction of the remediation, AMD management and water management systems and acid soils entombment within the design parameters accepted by MSES and the WVDEP.

EDUCATION (Degree, Year, Specialization)

To assist the reviewer of this questionnaire, a brief one-page professional vita is provided at the end of this page for Louis P. Saas, Jr.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

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

NAME & TITLE (Last, First, Middle Int.)

Fleming, Terry L.

BS Forestry Sciences

Construction QA/QC

YEARS OF AML DESIGN EXPERIENCE:

8

YEARS OF EXPERIENCE

YEARS OF AML RELATED DESIGN EXPERIENCE:

33

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

33

Brief Explanation of Responsibilities

Mr. Fleming has an extensive background in West Virginia Mining and mined lands construction monitoring and construction QA/QC. He will be part of the filed team for site investigation and compatible design for management of abandoned mine lands. If needed Mr. Fleming can perform day-to-day on-site construction monitoring to ensure compliance with the design drawings, standards, specifications, and conditions. Before joining MSES, Mr. Fleming spent 20 years as the Environmental Inspectors Supervisor for the Northern Region I of the WVDEP Division of Mining and Reclamation. He was responsible for over 750 mining facilities operated in compliance with the WVDEP Mining regulations. During his tenure, Mr. Fleming became knowledgeable and familiar with all methods of Acid Mine Drainage management including sludge (yellow boy) management and disposal.

EDUCATION (Degree, Year, Specialization)

To assist the reviewer of this questionnaire, a brief one-page professional vita is provided at the end of this page for Terry A Fleming.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Louis P. Saas, Jr.

Project Engineer

Years of Experience with MSES: 20 **Years of Experience with Other Firms:** 27

Education

B. S. Electrical Engineering - West Virginia Institute of Technology - 1971
A. S. Electronic Engineering- (International Correspondence School (ICS) - 1989

Professional Registrations/Certifications

Master Electrician's License - State of West Virginia

Professional Organizations

Institute of Electrical Electronic Engineers (IEEE)

Past Work History

Equitable Gas Co./Equitrans, L.P.

Experience Summary

- | | |
|--|--|
| <input type="checkbox"/> Project Management | <input type="checkbox"/> Regulatory Interaction |
| <input type="checkbox"/> Brownfields | <input type="checkbox"/> Noise Assessment |
| <input type="checkbox"/> Database Systems | <input type="checkbox"/> Waste Management/Minimization |
| <input type="checkbox"/> Computer Modeling | <input type="checkbox"/> Life Safety Codes |
| <input type="checkbox"/> RCRA Waste Units | <input type="checkbox"/> Risk Assessment/Analysis |
| <input type="checkbox"/> Remediation (Design and Permitting) | <input type="checkbox"/> Job Costing |
| <input type="checkbox"/> Economic Feasibility | <input type="checkbox"/> Property Evaluation |
| <input type="checkbox"/> Design (Stations, M&R, Pipeline) | <input type="checkbox"/> Specification Development |
| <input type="checkbox"/> Code Compliance | <input type="checkbox"/> QA/QC Compliance |
| <input type="checkbox"/> Training Programs | <input type="checkbox"/> Sampling Programs |
| <input type="checkbox"/> Gas System | <input type="checkbox"/> AC Mitigation Design/Testing |
| <input type="checkbox"/> Cathodic Protection Design/Testing | <input type="checkbox"/> Environmental/Architectural Support |

MSES



PROFESSIONAL VITAE

Terry L. Fleming, R.P.F.

Forester/Environmental Scientist

Years of Experience with MSES: 8

Years of Experience with Other Firms: 30

Education

B. S. Forestry Sciences, West Virginia University, 1955

Professional Registrations/Certifications

Registered Professional Forester - West Virginia and Pennsylvania
Certified Drainage Inspector - West Virginia Department of Environmental Protection
Certified Compaction Technician - West Virginia Department of Highways
40 Hour OSHA Health and Safety Training
Wetlands Delineation Training - U. S. Army Corps of Engineers Training Program
Certified Compliance Inspector Stormwater - Pending
Operator Qualification - USDOT

Professional Organizations

American Society of Professional Foresters
Soil Conservation Society of America

Past Work History

West Virginia Department of Environmental Protection - Supervisor Mine Reclamation
Northern Division
West Virginia Division of Natural Resources - Reclamation Permit Review Team
West Virginia Division of Natural Resources - Reclamation Inspector
West Virginia Division of Natural Resources - Water Inspector

Experience Summary

- | | |
|--|--|
| <input type="checkbox"/> Regulatory Interaction | <input type="checkbox"/> Phase I and II Investigation |
| <input type="checkbox"/> Sampling/Laboratory Programs | <input type="checkbox"/> Database Systems |
| <input type="checkbox"/> Environmental Inspections | <input type="checkbox"/> In-Field Clay Liner Testing |
| <input type="checkbox"/> Stormwater Management | <input type="checkbox"/> In-Field LLDPE & HDPE Liner Testing |
| <input type="checkbox"/> Specification Development | <input type="checkbox"/> Sampling and Data Collection |
| <input type="checkbox"/> QA/QC Inspection & Compliance | <input type="checkbox"/> Subsurface Investigation |
| <input type="checkbox"/> Bioremediation | <input type="checkbox"/> Code Compliance |
| <input type="checkbox"/> Computer Modeling | <input type="checkbox"/> GPS Survey/GIS Mapping |
| <input type="checkbox"/> Soil Compaction Testing - Nuclear Gauge | <input type="checkbox"/> NPDES Permitting |
| <input type="checkbox"/> Earth Sciences | <input type="checkbox"/> Erosion & Sediment Planning |
| <input type="checkbox"/> Wetlands | <input type="checkbox"/> Forestry Surveys |
| <input type="checkbox"/> Habitat Surveys | <input type="checkbox"/> Forestry Impact Assessments |
| <input type="checkbox"/> Reclamation Planning | <input type="checkbox"/> Impoundment Inspections |
| | Coal Slurry · Freshwater |
| <input type="checkbox"/> FERC E&S Programs | <input type="checkbox"/> Construction Stormwater |
| <input type="checkbox"/> FERC Inspection | <input type="checkbox"/> Spill Response |

MSES



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

NAME & TITLE (Last, First, Middle Int.)

Arnold, Daniel T.

BA Chemistry

BA Mathematics

MS Environmental Legal Studies

YEARS OF EXPERIENCE

YEARS OF AML DESIGN EXPERIENCE:

7

YEARS OF AML RELATED DESIGN EXPERIENCE:

10

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

10

Brief Explanation of Responsibilities

Mr. Arnold has many years of NPDES Permitting and earth sciences experience for many diversified new and environmental remediation projects. He will be a part of the design team and assigned permit Team Leader, to assure that reclamation is within the guidelines set forth by the site remediation design, plans, specifications, and contract

EDUCATION (Degree, Year, Specialization)

To assist the reviewer of this questionnaire, a brief one-page professional vita is provided at the end of this page for Daniel T. Arnold.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

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

NAME & TITLE (Last, First, Middle Int.)

YEARS OF EXPERIENCE

YEARS OF AML DESIGN EXPERIENCE:

YEARS OF AML RELATED DESIGN EXPERIENCE:

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

Brief Explanation of Responsibilities

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Daniel T. Arnold

Senior Environmental Scientist

Years of Experience with MSES: 7 Years of Experience with Other Firms: 23

Education

- B. A. Chemistry, Glenville State College, 1989
- B. A. Mathematics, Glenville State College, 1989
- M. S. Environmental Legal Studies, West Virginia University, 2012

Professional Organizations

American Chemical Society

Past Work History

- Sturm Environmental Services - Chemist, Lab Manager
- West Virginia Department of Environmental Protection - Manager Lab Certification Program

Experience Summary

- | | |
|--|--|
| <input type="checkbox"/> Job Costing | <input type="checkbox"/> SPCC Plans |
| <input type="checkbox"/> Management | <input type="checkbox"/> Waste Management/Minimization |
| <input type="checkbox"/> Earth Sciences | <input type="checkbox"/> Hazardous Waste Management |
| <input type="checkbox"/> Risk Assessment/Analysis | <input type="checkbox"/> Brownfields Specialist |
| <input type="checkbox"/> Regulatory Interaction | <input type="checkbox"/> Health & Safety |
| <input type="checkbox"/> Economic Feasibility | <input type="checkbox"/> Hydrologic and Hydraulic Analysis |
| <input type="checkbox"/> Phase I/II Investigation | <input type="checkbox"/> Groundwater Protection Plans |
| <input type="checkbox"/> SARA Title III | <input type="checkbox"/> Remediation (Design and Permitting) |
| <input type="checkbox"/> Specification Development | <input type="checkbox"/> RCRA Waste Units |
| <input type="checkbox"/> Earth Sciences | <input type="checkbox"/> Bioremediation |
| <input type="checkbox"/> Environmental/Architectural Support | <input type="checkbox"/> Geographic and Hydrologic Studies |
| <input type="checkbox"/> GIS Systems | <input type="checkbox"/> Sampling/Laboratory Programs |
| <input type="checkbox"/> Flood Routing/Flood Plain Analysis | <input type="checkbox"/> Indoor Air Quality |
| <input type="checkbox"/> HEC - RAS & SEDCAD Modeling | <input type="checkbox"/> Code Compliance |
| <input type="checkbox"/> Stormwater Management | <input type="checkbox"/> E-911 Systems |
| <input type="checkbox"/> SWPPP and CIS Programs | <input type="checkbox"/> POTW Design/Operation |
| <input type="checkbox"/> Training Programs | <input type="checkbox"/> Water/Sewer Collection Systems |
| <input type="checkbox"/> I&I Programs and Studies | <input type="checkbox"/> Rate Cases Water/Sewer |
| <input type="checkbox"/> Municipal Engineering | <input type="checkbox"/> Laboratory/Sampling Programs |
| <input type="checkbox"/> NPDES Modeling | <input type="checkbox"/> NPDES Permitting |
| <input type="checkbox"/> NORM Assessment | <input type="checkbox"/> Spill Response |
| <input type="checkbox"/> E & S Plans | <input type="checkbox"/> UST · AST Tanks |
| Construction · Permitting · Monitoring | Siting · Permitting · Inspections · Registration |

MSES



14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES.

EaglePoint 2015 Q3 Civil Design Software

Carlson Software Civil Design and SURVCADD 2015

SEDCAD 4

HELP 3

SMI – Data Collection and Transfer

TRAVERSEPC – Data COGO

SURVCADD – Data Transfer, COGO Procedures, Civil Tools, Volume Tools

SOLO OFFICE – GPS Transfer and Correction

AUTOCADD 2015 and 2016

ARCINFO

AUTOCAD MAY 3D 2016

ARCVIEW GIS

ARCVIEW 3D, Spatial, Streetmap, Network, TASC Tracking Analysis, and Geoprocessing Extensions

Visual MODFLOW/MODPATH/MT3D/RT3D/WINPEST Groundwater Modeling Software

WINLOG Boring and Well Log Software

Microsoft Project

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES

EaglePoint 2015 Q3 Civil Design Software

Carlson Software Civil Design and SURVCADD 2015

SEDCAD 4

HELP 3

SMI – Data Collection and Transfer

TRAVERSEPC – Data COGO

SURVCADD – Data Transfer, COGO Procedures, Civil Tools, Volume Tools

SOLO OFFICE – GPS Transfer and Correction

AUTOCADD 2016 and 2017

ARCINFO

AUTOCAD MAY 3D 2016

ARCVIEW GIS

ARCVIEW 3D, Spatial, Streetmap, Network, TASC Tracking Analysis, and Geoprocessing Extensions

Visual MODFLOW/MODPATH/MT3D/RT3D/WINPEST Groundwater Modeling Software

WINLOG Boring and Well Log Software

Microsoft Project

Additional software and equipment is listed on following attached pages

- FEFLOW v. 7.1.14, Environmental Software Consultants contains a fate and transport computer program, featuring a vadose zone model (VADOSE) that links directly to an internal AT123D (Analytical Transient 1-, 2-, and 3-Dimensional) groundwater model.
- U.S. Fish & Wildlife Service National Wetlands Inventory (NWI) Mapper
- U.S.D.A. Natural Resources Conservation Service WebSoilSurvey online interactive mapping application, Soil Survey Geographic (SSURGO) database, and published County Soil Survey Reports
- United States Geological Survey (USGS) 7.5' Topographic Quadrangle Maps
- West Virginia Geological and Economic Survey, Coal Bed Mapping Project, interactive mapping application of coal beds, mapping of existing and mined resources, structure contours, isopach mapping, etc.
- West Virginia Department of Environmental Protection, TAGIS Mine Data Explorer application
- Mini-Rae Photoionization meter
- Hand held Four-gas monitors
- Topcon Hiper V RTK GPS receivers
- Sokkia GRS2 RTK GPS receivers
- Topcon Total Stations
- Leica Total Stations
- Carlson Surveyor+ Data Collectors
- Civil 3D
- ARCGIS 10.3
- Visual MODFLOW/MODPATH/MT3D/WINPEST Groundwater Modeling Software
- WINLOG Boring and well log software
- PIPEBLAST
- GAS Chromatograph
- Three (3)- BIZHUB C452 Photo Copiers

- (2)- HPT7100 Color Plotters
- OCE TDS 450 Wide Frame Color Scanner
- 70+ personnel computers most having 8 GB and 64 bit operating systems with Microsoft Office Suite
- SLEIS (State and local emission Inventory System)
- LandGEM
- GLY CALC
- TRIME (Toxic release Inventory)
- HEC RAS 5.0.1
- HEC HMS 4.1
- SigmaStat 3.5 for statistical analysis of data.
- Fultz submersible variable speed pump for purging and low flow sampling
- Two single speed submersible pumps for purging
- Various bailers
- AMS soil sampling kits with augers and drive points
- Water level meters 100' and 300'
- pH meters
- Conductivity meter
- Dissolved Oxygen meter
- ORP meter
- Turbidity meter
- Flow-through cell

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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Incidental Coal Removal Meadowfill Landfill	Meadowfill Landfill, Inc. 1488 Dawson Drive Bridgeport, WV 26330	Mapping, Property Ownership Permit and Design for Surface Coal Removal	\$100,000	100%
AMD Passive Treatment 100 gpm Deep Mine Discharge Meadowfill Landfill	Meadowfill Landfill, Inc. 1488 Dawson Drive Bridgeport, WV 26330	AMD Baseline Study Treatment System Design Construction Certificate	\$250,000	90%
AMD Separation and Collection	S&S Grading, Inc. 4339 Good Hope Pike Clarksburg, WV 26301	Field Monitoring and Collection System Design, Mapping, Construction Certificate	\$150,000	100%
Wetlands, Leachate and AMD Passive Treatment System	Nicholas County Landfill	Mapping Design, Verification and Monitoring, Property Ownership	\$300,000	100%
Refuse Pile Cap with Short Paper Fiber	Arch Coal Inc. 2708 Cranberry Sq. Morgantown, WV 26505	Mapping Design and Construction Certificate	\$250,000	100%
AMD Treatment Cell with Short Paper Fiber (SPF)	Allied Waste, Inc. 2 12 th Street Fairmont, WV 26554	Mapping Design Construction Specifications and Inspection	\$175,000	100%
Refuse Cell Cap with Short Paper Fiber	Martinka Coal Co. Tygart River Mine 500 Lee Street Charleston, WV 25301	Design, Construction Inspection and Monitoring	\$300,000	100%
Cooling Water Treatment Design and Permit	Armstrong Industries	Design, Permitting, Construction Certificate and Operation Monitoring	\$300,000	95%
Mine Site AMD Old Landfill Site Reclamation City of Clarksburg	WVDEP 604 57 th Street, SE Charleston, WV 25304	Mapping, Property Ownership, Soils and Water Evaluation, Analysis of Treatment, Synthetic Closure Cap, Design and Construction QA/QC	\$5,000,000	25%
TOTAL NUMBER OF PROJECTS: # 8		TOTAL ESTIMATED CONSTRUCTION COSTS: \$ 6,825,000.00		

The projects listed by section 15 are only those projects that are current or within the last 3 years. The MSES staff has experience in all types of abandoned mine lands and AMD management ranging from design, monitoring, permitting, collection systems and refuse capping, MSES has lead the industry in repurposing abandoned mine land sites into commercial and industrial facilities.

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

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY

MSES Consultants, Inc. is the prime consultant for all of its AMD and abandoned mine land reclamation projects. All services are from MSES' full-time in-house staff.

17. C) COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM \ THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Dola Reclamation Coal Refuse Area Cap Using SPF Dola, WV Phase II	Republic Services, Inc. 2 12 th Street Fairmont, WV 26554	\$2,000,000	2011	YES
Martinka Reclamation Coal Refuse Area Cap Fairmont, WV Abandoned Surface Mine Repurpose	Republic Services, Inc. 2 12 th Street Fairmont, WV 26554	\$1,000,000	2010	YES
Re-purpose Surface Mine as a Municipal Solid Waste Phase 6B & 7A Construction Meadowfill Landfill	Meadowfill Landfill, Inc. 1488 Dawson Drive Bridgeport, WV 26330	\$4,800,00	2012	YES
Re-purpose Surface Mine as a Municipal Solid Waste Phase 8A & 9A Construction Meadowfill Landfill – Abandoned Surface Mine Repurpose	Meadowfill Landfill, Inc. 1488 Dawson Drive Bridgeport, WV 26330	\$2,500,000	2012	YES
Re-purpose Surface Mine as a Municipal Solid Waste Phase 6A Construction S&S Landfill – Abandoned Surface Mine Repurpose	S&S Grading, Inc. 4339 Good Hope Pike Clarksburg, WV 26301	\$2,000,000	2013	YES
Re-purpose Surface Mine as a Municipal Solid Waste Phase 4A Construction S&S Landfill – Abandoned Surface Mine Repurpose	S&S Grading, Inc. 4339 Good Hope Pike Clarksburg, WV 26301	\$2,000,000	2012	YES
Meadowfill Landfill Expanded Wastewater Management System Harrison County, WV	Meadowfill Landfill, Inc. Doug Hall	\$1,900,000	2015	YES

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
S&S Grading, Inc. S&S Landfill Upgrade Landfill Waste Water Management System in the Connections with GHCPD Harrison County, WV	S&S Grading, Inc. Clarksburg Facility 200 Ragos Lane Washington, PA 15301 Attn: Adam Finley PA/WV Engineering Manager	\$1,090,000	2014	YES
S&S Grading, Inc. S&S Landfill Special Mine Site Reclamation Two Closure Projects, Old Abandoned MSW Landfill, Phase I Cell Closure, Permit Modifications Harrison County, WV	S&S Grading, Inc. Clarksburg Facility 200 Ragos Lane Washington, PA 15301 Attn: Adam Finley PA/WV Engineering Manager	\$1,700,000	2013	YES
Abandoned Highwall Reclamation with Waste Tire Landfill	Tire and Rubber, Inc. 710 Grass Run Road Weston, WV 26452	\$500,000	2011	YES
Mine Site Repurpose 75 Acre Expansion of Meadowfill Landfill	Meadowfill Landfill, Inc. 1488 Dawson Drive Suite 101 Bridgeport, WV 26330	\$125,000	2015	YES
Mine Site Repurpose 40 Acre Expansion of S&S Landfill	S&S Grading, Inc. 4339 Good Hope Pike Clarksburg, WV 26301	\$75,000	2014	YES
Mine Site Reclamation 14 Acre Expansion of Meadowfill Landfill	Meadowfill Landfill, Inc. 1488 Dawson Drive Suite 101 Bridgeport, WV 26330	\$3,200,000	2015	YES
Mine Site Repurpose and Highwall Reclamation New C&D Landfill Clarksburg, WV	City of Clarksburg 222 West Main Street Clarksburg, WV 26301	\$50,000	2014	YES
Jessie Run Refuse Area Cap Jane Lew, WV	Allied Waste, Inc. 1 12 th Street Fairmont, WV 26554	\$600,000	2013	YES
Mine Site Reclamation Closure of Industrial Solid Waste and Sludge Landfill Wellsburg, WV	Banner Fibreboard Company 22 nd and Commerce Street Wellsburg, WV 26070	\$500,000	2012	YES

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

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

MSES Consultants, Inc. is the prime consultant for all of its AMD and abandoned mine land reclamation projects. All services are from MSES' full-time in-house staff.

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

20. The foregoing is a statement of facts.

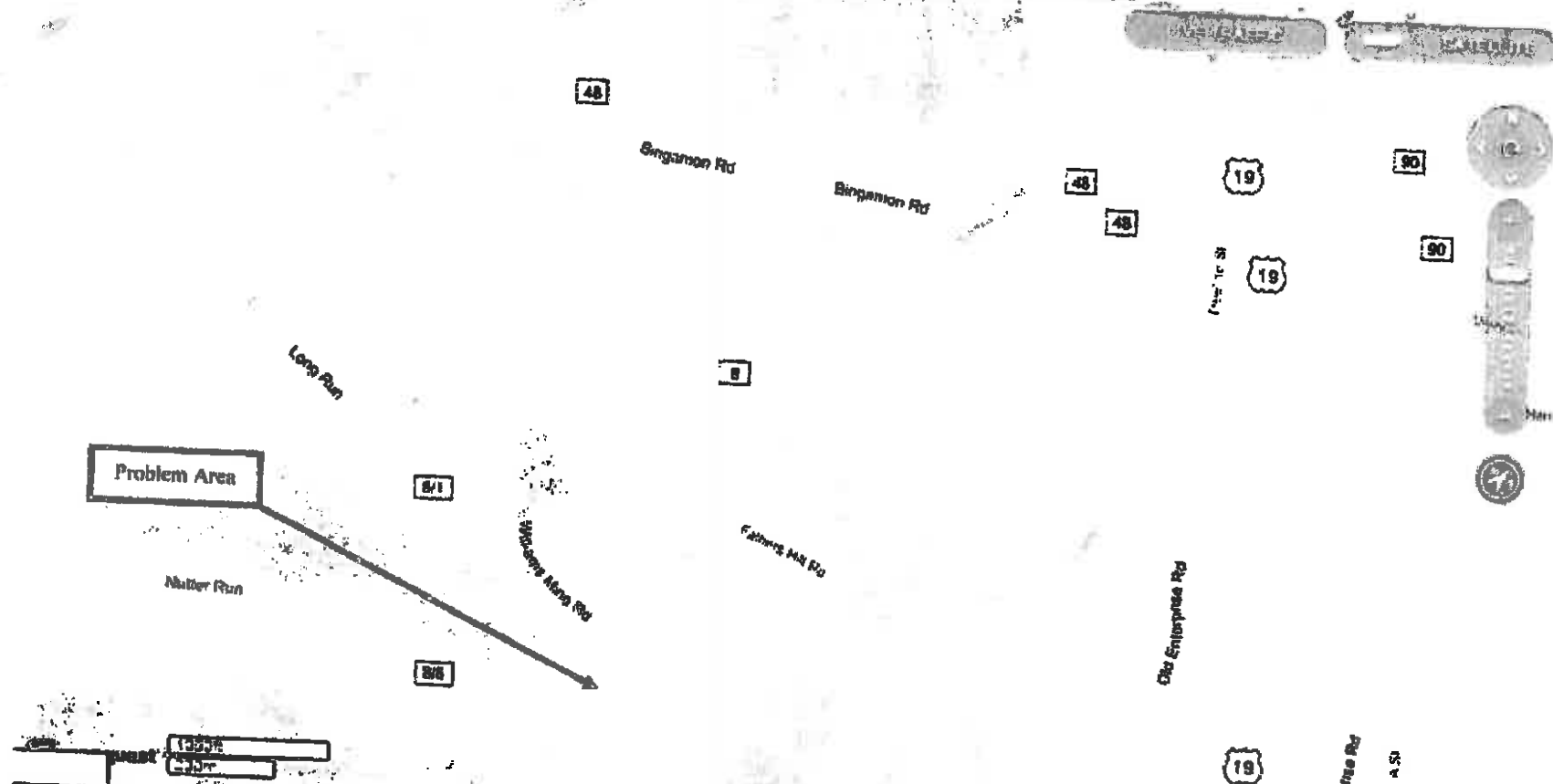
Signature: 

Title: President

Date: July 9, 2018

Printed Name: Lawrence M. Rine

Highway Map **Pine Bluff (Wilson) Refuse: WV-6719**

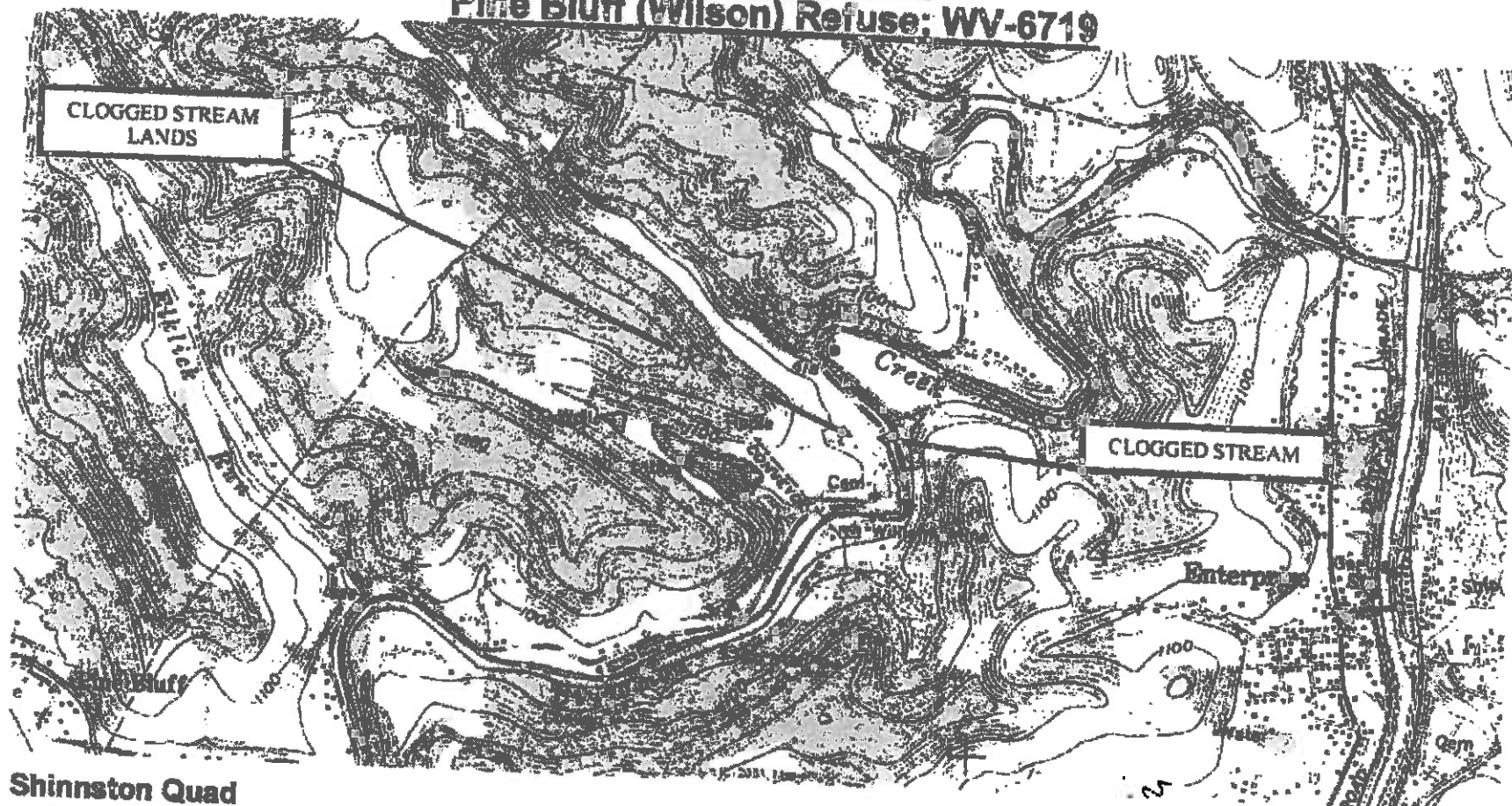


Shinnston Quad
 Latitude: 39° 25' 37.0"

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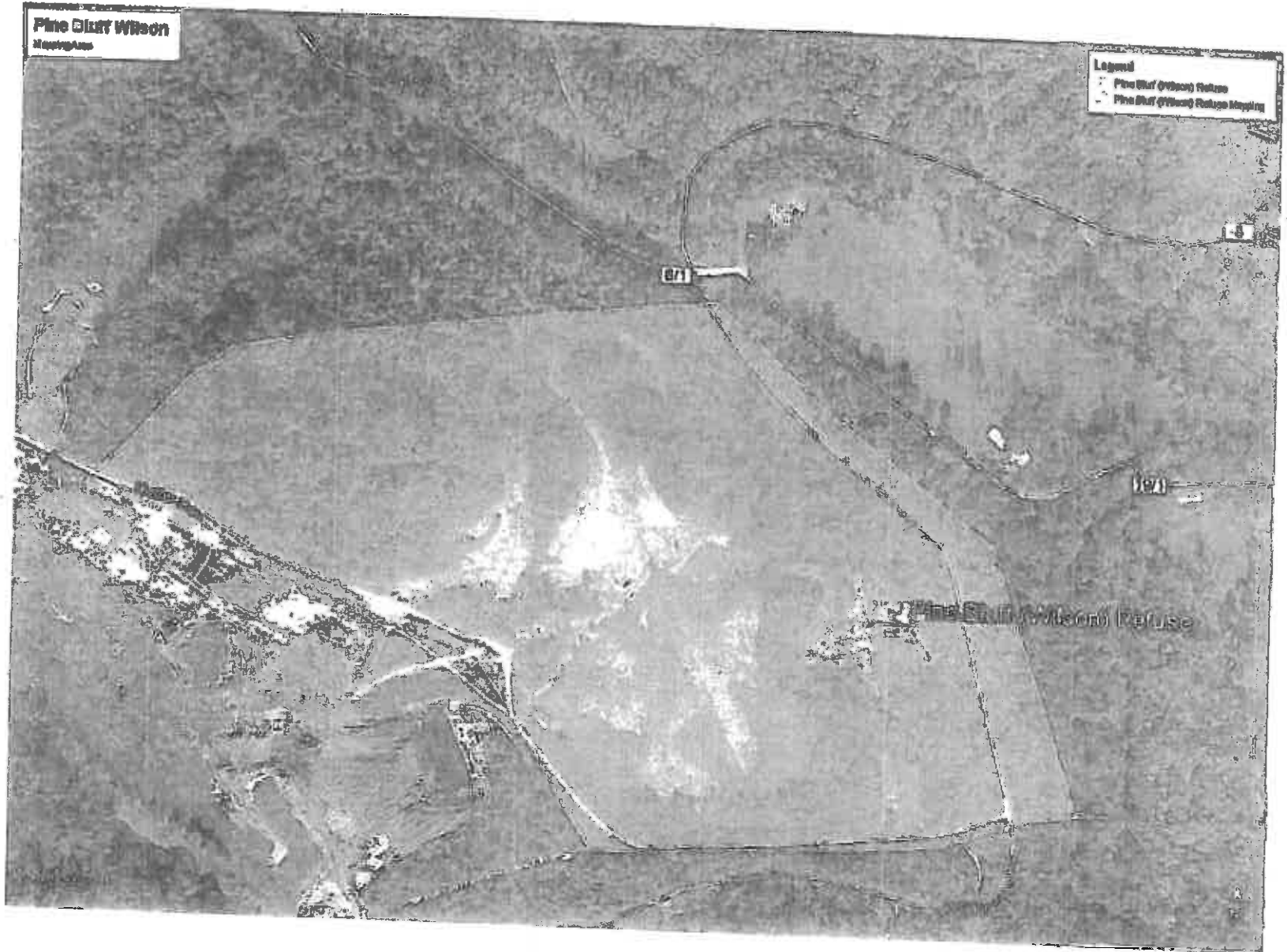
Harrison County
 Longitude: 80° 17' 45.9"

Project Topo Map
Pine Bluff (Wilson) Refuse: WV-6719



Shinnston Quad
Latitude: 39° 25' 37.0"

Harrison County
Longitude: 80° 17' 45.9"



EXPRESSION OF INTEREST

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LAND AND RECLAMATION
PROFESSIONAL ENGINEERING ARCHITECTURAL DESIGN SERVICES FOR
PINE BLUFF (WILSON) REFUSE AREA RECLAMATION
HARRISON COUNTY WEST VIRGINIA

QUESTIONNAIRE ITEM 19 SUPPLEMENTAL INFORMATION



MSES consultants, inc.
Clarksburg, West Virginia

CONTENTS

- 1 INTRODUCTION**
- 2 QUALIFICATIONS AND TECHNICAL EXPERTISE**
- 3 MANAGEMENT AND STAFFING CAPABILITIES**
- 4 SUPPORT SERVICES**
- 5 RELATED PRIOR EXPERIENCE**
- 6 CONFIRMATIONS**

MSES CONSULTANTS, INC. - THE FIRM

MSES Consultants, Inc. is a multi-disciplinary engineering, solid waste management, design, environmental, and project management firm, headquartered in Fairmont, West Virginia, with offices in Huntington and Clarksburg, West Virginia. We have amassed 42 years of successful project experience, serving private and public clients since our initial founding as a small, 3-person environmental consulting firm in 1976. MSES expanded rapidly to become a provider of total engineering, solid waste management, design, and environmental services by the year 1978, and we have seen our ranks swell, with a current professional staff of 74, including 2 Registered Architects, 8 Registered Engineers, 2 Registered Structural Engineers, 1 Certified Industrial Hygienists, Fire Safety Specialist, Life Safety Specialist, ADA Compliance Specialist, 4 Professional Land Surveyors, and a diverse roster of professionals, scientists, biologist, geologist, hydrogeologists, technicians, and support personnel.

MSES Consultants, Inc. has completed more than 36,288 assignments to date. We have been heavily focused on the specific needs of the mining, waste, and oil and gas industries since our founding in 1976, and many of our projects have involved studies, designs, inspections, geotechnical investigations, assessments and reviews, environmental sampling and analysis, synthetic liner systems, groundwater/hydrogeologic programs and modeling, stormwater management, sanitary, stormwater and leachate system design, utility analysis, property evaluations and appraisals for existing and proposed sites, and AML closures throughout West Virginia and the eastern and mid- Atlantic regions of the United States. MSES has become sought after by many public and private clients for the permitting, design, construction of new facilities, upgrades, and closures due to the breadth of our technical and professional services, the efficiency of our operations, and our unique status as a **single-source consultant** for all services required to successfully complete our client's projects.

MSES CONSULTANTS, INC. AND SITE MANAGEMENT

Since its inception in 1976, MSES Consultants, Inc. has developed and maintained an intimate connection with many private and public waste management entities within West Virginia. One of the unique factors that has prompted our knowledge of and responsiveness to the needs of the waste industry is the presence of former Public Service District, City Engineer, West Virginia and Kentucky Department of Transportation, electric company, and natural gas company employees among our ranks of seasoned professionals.

In addition to our familiarity with waste management engineering needs, MSES has benefitted from the national and international expertise of various professionals among our ranks who have worked for such diverse entities as CH2M Hill, ERM Midwest, Union Carbide Corporation, Westinghouse, GE Companies, and West Virginia University. These key employees contribute a wealth of knowledge and a breadth of experience that can often be difficult to match.

In addition to employee experience, another factor for MSES' continued success is the unusual degree of longevity and company loyalty among our personnel. Our many long-term and repeat clients are appreciative of the continuity that this affords, and are refreshed with the degree of familiarity and prior knowledge with which each subsequent project is met. It is this unique combination of knowledgeable, experienced, talented, and devoted principals and employees that has brought MSES Consultants to the forefront as a provider of total engineering, environmental, planning, and management services for the waste, mining, and oil and gas industries.

DEPTH OF PERSONNEL

MSES Consultants, Inc. maintains a staff of highly-trained and experienced personnel, including all of the technical disciplines necessary to fully staff projects of all sizes and types. Our personnel demonstrate the education and experience required to accommodate the engineering and planning needs for the Acid Mine Drainage collection and treatment and special reclamation for the Pine Bluff (Wilson) Refuse Site (CRQS).

Our staff's stable employment record enables the firm to assemble project teams that have worked together before, and that possess a good knowledge of how individual strengths fit together to form an effective team. The firm is able to assemble teams composed of individuals whose capabilities are tested and well known to our establishment. We assign senior staff to management roles on all our projects.

The multi-disciplinary depth of our staff is reflected by the Professional Staff Chart, found on Page 1-4, while a listing of current and pending professional registrations is provided by the chart located on Page 1-5. The depth of our staff in each category permits performance of large assignments, as well as simultaneous performance of many jobs that do not require full-time commitment of individuals. Our experience and diverse staffing capabilities allow us to draw upon specialized personnel to facilitate unique project requirements.

The wide variety of services that MSES Consultants, Inc. provides makes it possible for clients to establish a working relationship with us as a single-source consultant. We are organized to ensure that all clients are provided with a high level of personal and professional attention.

MSES CONSULTANTS AND LAROSA FUELS SPECIAL RECLAMATION

MSES believes we are a firm which offers a broad range of resources and expertise, whose close proximity to the Pine Bluff site and our knowledge of the mined land reclamation and re-purposing can be of particular value in accomplishing the special reclamation and objectives. We are confident MSES will prove to be an extension of the West Virginia Land Stewardship Corporation design planning efforts, enhancing its vision on a long-term basis. As many of our local and regional clients have found - we are their best kept secret.

PROFESSIONAL STAFF

Category	Number of Employees	Education		
		Associate Degrees	Bachelor Degrees	Advanced Degrees
Administrative	4	2	2	--
Project Managers	6	--	5	1
Chemical Engineer	1	--	1	1
Chemist	3	--	1	2
Civil Engineer	5	--	3	2
Structural Engineer	2	--	--	2
Resident Construction Engineer	4	1	3	--
CAD/Design Draftsman	8	--	5	--
CAD/Drafter	9	7	2	--
Environmental Geographer (GIS)	2	--	2	--
Ecologist	4	--	3	1
Forester	2	--	2	--
Meteorologist	1	--	1	--
Electrical Engineer	3	--	3	--
Geologist	2	--	2	--
Hydrologist	1	--	--	1
Architect	1	--	3	2
Architect Designers	1	1	5	--
Landscape Architect	1	--	1	--
Environmental Engineer	3	--	1	2
Mechanical Engineer	2	--	2	--
Mining Engineer	2	--	1	1
Industrial Engineer	1	--	1	--
Sanitary Engineer	2	--	2	--
Soil Engineer	2	--	2	--
Structural Engineer	2	--	1	1
Transportation Engineer	1	--	1	--
Certified Industrial Hygienist	2	--	2	--
Certified Safety Professionals	2	--	2	1
Physical Therapist	1	--	1	--
Audiologist	1	--	--	1
Safety Engineer	2	--	--	2
Land and Right-Of-Way Agents	3	--	3	--
Paralegal	2	--	2	--
Surveyors	6	2	4	--
Economist	1	--	1	1
Forensic Biologist	1	--	1	--
Biologist	4	--	1	2
Botanist	1	--	--	1
Wildlife & Fisheries Resources	2	--	1	1
National Resources Management	2	--	1	1
Engineering Technicians	4	2	2	--
Survey Support	10	10	2	--

MSES employs a professional staff of multi-educated, full-time professionals with experience in forty disciplines.

MSES' professionals are supported by the latest in field data collectors, computers and computer software, electronic and satellite survey, computer-aided drafting and design, and our in-house graphic and reproduction center.

PROFESSIONAL REGISTRATIONS

MSES has, since 1976, provided its professional services in seven eastern states surrounding West Virginia. Provided is a listing, by state, of the professional disciplines and type of registration per each state or national registry:

Discipline	MSES Staff Members Per State								National
	WV	NY	PA	MD	VA	TN	KY	OH	
Surveyor	4	Pending	3	Pending	0	2	3	3	
Architects	1	--	5	5	5	--	--	5	
Engineers									
Civil	4	1	2	1	3	0	3	3	
Electrical	2	1	2	1	2	1	1	2	
Mechanical	2	1	2	1	2	1	1	2	
Environmental	2	1	1	1	1	1	1	1	
Structural	2	0	2	0	1	0	1	0	
Safety	1	0	1	1	1	0	1	1	
Mining	1	0	1	1	1	0	1	1	
Geologist	--	--	--	--	1	0	1	1	
Forester	1	--	1	--	1	--	--	--	
Asbestos									
Inspectors	4	--	0	0	1	0	0	1	
Samplers	4	--	0	0	1	0	0	1	
Planner	4	--	0	0	1	0	0	1	
Manager	4	--	0	0	1	0	0	1	
Lead Risk Assessor	1	--	--	--	--	--	--	--	
Licensed Remediation Specialist	1	2	--	--	--	--	--	4	
Underground Storage Tank									
Inspector	4	0	0	0	0	0	0	0	
Designer/Installer	2	0	0	0	0	0	0	0	
Cathodic	3	0	3	3	3	3	3	3	
Geosynthetic Institute	--	--	--	--	--	--	--	--	5
HDPE & Clay Liners									
Certified Monitor Well	5	--	2	0	--	--	0	--	
Designer/Driller									
Certified Safety Professional	--	--	--	--	--	--	--	--	4
Certified Industrial Hygienist	--	--	--	--	--	--	--	--	2
Radiation Safety Officers	--	--	--	--	--	--	--	--	6
LEEDAPs	--	--	--	--	--	--	--	--	4
NACE Certified									
Corrosion Technician	--	--	--	--	--	--	--	--	4
Sr. Corrosion Technologist	--	--	--	--	--	--	--	--	2
Internal Corrosion Technician	--	--	--	--	--	--	--	--	4
Stormwater									
CPSWPPP Certified	--	--	--	--	--	--	--	--	1
CCIS Certified	--	--	--	--	--	--	--	--	1
Real Estate									
Licensed Realtor	3	0	0	0	0	0	0	0	

The term "pending" displayed under a given state indicates that members of MSES' staff have tested for the particular registration but results are not known. The symbol "--" displayed under a given state indicates that state has no registration program for the particular discipline.

Qualifications and Technical Expertise

OVERALL CAPABILITIES

MSES Consultants, Inc. is one of the largest West Virginia-owned and diversified consulting engineering, environmental, waste management, and planning firms in the State. For over 42 years we have provided quality services to a wide range of public and private clients, with waste management (solid, hazardous, and mining wastes) representing a significant portion of our past and present assignments.

Due to the many factors discussed previously, MSES is intimate with all aspects of land planning, land reclamation, acid mine drainage management, engineering design, and construction QA/QC, from site evaluation, surface and subsurface investigations, hydrogeologic characterizations, environmental assessments, boundary and property surveying, mapping and design to permitting reclamation sites, and acid mine drainage treatment, design and permitting. In addition, we are keenly aware of the many challenges and problems that may be inherent to these processes. The benefits of our experience and diligence are perhaps most effectively demonstrated by our large number of long term clients. For many, we have provided continuing services for multiple projects for more than 30 years.

In addition to our work within the State of West Virginia, MSES also has extensive experience throughout much of the eastern United States, having completed ambitious projects in states such as New York, Pennsylvania, Ohio, Maryland, Virginia, Kentucky, and Tennessee. Many among our staff maintain professional registrations in these states, where applicable, which are representative of a variety of disciplines (i.e., environmental services, engineering, surveying, remediation specialization, geology, etc.).

SUPPORT FACILITIES

In order for a team to be effective, it must be supported by modern and extensive equipment, laboratory accommodations, and data processing resources. As a full service organization, MSES possesses the facilities necessary to support all aspects of its projects, from the collection of field and survey data, through the performance of physical/chemical sample collection and analysis, to the reduction, analysis, and final presentation of project data. State-of-the-art software is also used for complex modeling and data presentation, and the development of company-specific training modules and visual productions.

Field Equipment and Support Facilities

The firm maintains a large fleet of vehicles, and an extensive inventory of equipment for field sampling and other activities. These facilities are unique among consulting engineers and are integral to MSES, as our personnel perform the field sampling activities for all our projects.

Among MSES' field support equipment are numerous four-wheel drive vehicles, to ensure site access, and a flat-bottomed boat, for water column profiling and the collection of surface waters and sediment samples. MSES utilizes a portable hydraulically-powered drilling apparatus for subsurface sampling at sites with restrictive access and for areas known to be underlain by unconsolidated materials. We are also supported by a full array of automated and computer-compatible sampling

Qualifications and Technical Expertise

devices, for the monitoring of mine discharges, surface water inflow and infiltration (I&I) and the collection of stormwater samples, industrial discharges, air quality monitoring data, volatile to semi-volatile organics levels, and industrial hygiene related samples.

For those sites whose conditions mandate the use of heavier, more complex subsurface equipment, MSES maintains established relationships with various drilling companies throughout the eastern and mid-Atlantic regions of the country. However, even when these subcontractors are utilized, they work under the direction of MSES soils/geology supervisory professionals, who are responsible for sample collection, visual and physical classification of materials encountered, data reduction and interpretation, and preparation of computerized boring logs and field reporting.

Laboratories

MSES Consultants, Inc. maintains an in-house laboratory for corrosion needs and wet chemistry methods in the physicochemical analysis of soils, surface water, groundwater samples, and leachate samples. Additional samples may be analyzed by laboratory facilities with whom MSES has maintained established, long-term relationships, and which demonstrate special emphasis on the needs of the waste industry. Conversely, an alternate, contract-specified analytical laboratory may be utilized at the request of the client.

Surveying/Global Positioning Equipment

We utilize the most modern electronic devices for surveying activities, with accuracy up to the first and second order. Survey data are logged in the field via state-of-the-art electronic equipment and downloaded into office computers and data plotters. In addition, we utilize global positioning equipment for certain categories of surveying. These devices are also electronically linked through special software to our plotting and design equipment.

Aerial Photography

All field survey and mapping techniques are performed by MSES personnel, with the only exception being aerial photography, when needed. MSES utilizes the services of two (2) firms for these particular projects with whom we have maintained professional rapport since the early 1980s.

Data Processing/Automated Drafting

MSES has a large number of Computer-Aided Design and Drafting (CADD) systems. We now have over 38 CADD units of various types and configurations in use daily on our projects. We utilize both AutoCADD and the more powerful Intergraph CADD units for design and data reduction and presentation. In addition, we have an in-house networked system of computers and processing equipment, with a fully networked array of programs to assemble and download data and manage tables, databases and spreadsheets. We are versed in Geographic Information Systems (GIS) methods, with expertise in ARC/Info and Small Worlds.

Qualifications and Technical Expertise

PROJECT TEAM CLIENT REFERENCES

United States Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029
Mr. Tom Stolle
Region III Brownfields Program Manager
215/814-3129

United States Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029
Mr. Joe Nowak
Region III Brownfields Project Manager
215/814-3301

West Virginia Department of Environmental Protection
Office of Water and Waste Management
57th Street
Charleston, WV 25304
Mr. Joseph M. Hickman
Assistant Chief, Inspectors
304/558-2505

West Virginia Department of Environmental Protection
Office of Water and Waste Management 601
Solid Waste Management Section
601 57th Street
Charleston, WV 25304
Mr. Sudhir D. Patel
Permitting Supervisor
304/926-0499

West Virginia Department of Environmental Protection
Office of Water and Waste Management
Landfill Closure Assistance Program
2031 Pleasant Valley Road
Fairmont, WV 26554
Mr. Paul Benedum
Project Manager
304/368-2000

West Virginia Department of Environmental Protection
Office of Water and Waste Management
Industrial Waste Section
2031 Pleasant Valley Road
Fairmont, WV 26554
Mr. John Britvec (Retired)
Geologist
304/368-2000

West Virginia Department of Environmental Protection
Division of Mining and Reclamation
254 Industrial Drive
Oak Hill, WV 25901
Mr. Richard L. Pino
Technical Analyst
304/465-1911

West Virginia Department of Environmental Protection
Division of Mining and Reclamation
105 South Railroad Street
Philippi, WV 26416
Mr. Clarence Wright
Permit Engineer
304/457-4588

Qualifications and Technical Expertise

**West Virginia Department of
Environmental Protection**
Division of Water and Waste Management
601 57th Street
Charleston, WV 25304
Mr. David L. Johnston
Permitting
304/926-0499

**U. S. District Court
Northern District of WV**
P. O. Box 791
Wheeling, WV 26003
The Honorable Frederick P. Stamp, Jr.
Federal District Judge
304/233-1120

Cytec Industries, Inc.
1 Heilman Avenue
Belmont, WV 26134
Mr. John Pitner
Special Projects Engineer
304/665-2422 304/737-3711

City of Clarksburg
222 West Main Street
Clarksburg, WV 26301
Mr. Martin Howe
City Manager
304/624-1677

City of Wellsburg
200 Main Street
Wellsburg, WV 26070
Mr. Patrick Comiskey
City Manager
304/737-2104

Dominion Transmission, Inc.
445 West Main Street
Clarksburg, WV 26301
Mr. Mark L. Reeser
Environmental Services Manager
304/627-3880

**West Virginia Department of
Environmental Protection**
Office of Air Quality
601 57th Street
Charleston, WV 25304
Ms. Beverly McKenon
Hazardous and Solid Management Unit
304/926-0499

Harrison County Solid Waste Authority
373 Wonder Bar Road
Clarksburg, WV 26301
Mr. Richard Barnett
Executive Director
304/326-0086

Banner Fibreboard
22nd and Commerce Streets
Wellsburg, WV 26070-0390
Mr. Dick Laughlin
President

The Fenton Art Glass Company
700 Elizabeth Avenue
Williamstown, WV 26187
Mr. George Fenton
President
304/375-6122

City of Clarksburg
222 West Main Street
Clarksburg, WV 26301
Mr. Anthony Bellotte
Compost Facility Supervisor
304/624-1611

Harrison County Commission
301 West Main Street
Clarksburg, WV 26301
Mr. Ron Watson
Commission President
304/624-8500

Qualifications and Technical Expertise

Waste Management of WV, Inc.
7 Spring Street
Charleston, WV 25302
Mr. Craig Arnold
Environmental Protection Manager
304/720-7617

Steptoe and Johnson
Chase Tower, Eighth Floor
P. O. Box 1588
Charleston, WV 25326-1588
Mr. Robert Pollitt
Senior Environmental Attorney
304/353-8137

Steptoe & Johnson
Chase Tower, Eighth Floor
Charleston, WV 25322
Mr. David Flannery
Environmental Department Chairman
304/340-1017

**Morgantown Industrial Park
Associates, L.L.C.**
1000 Dupont Road
Morgantown, WV 23505
Mr. Don Kuhns
Manager
304/292-9453

Waste Management, Inc.
West Virginia and Pennsylvania Region
200 Rangus Lane
Washington, PA 15301
Mr. Adam Finley
Engineering Manager
681/456-6984

Waste Management, Inc.
West Virginia Landfills
510 East Dry Run Road
Parkersburg, WV 26102
Mr. Doug Hall
Regional Landfill Manager
800/428-8152

Novelis Corporation
Fairmont, WV 26554
Mr. Paul Zanussi
Safety & Environmental Manager
304/367-5200

Bowles Rice
600 Quarrier Street
Charleston, WV 25301
Mr. David Yaussy
Partner
Environmental Attorney
304/347-1169

Steptoe & Johnson
P. O. Box 2190
Clarksburg, WV 26302
Mr. W. Henry Lawrence
Senior Environmental Attorney
304/624-8186

Enrout Properties, LLC
Adrian Enterprises, LLC
466 Christy Street, Suite 2
Morgantown, WV 26505
Mr. Kevin Adrian
Partner
304/599-3285

Sabic Innovations Plastics
9226 Dupont Road
Washington, WV 26181
Mr. Allen White
Environmental Manager
304/863-7737

Kroger Mid-Atlantic
P. O. Box 14002
Roanoke, VA 24038-4002
Mr. Fenton Childers
Regional Real Estate Manager
540/563-3652

Qualifications and Technical Expertise

**West Virginia Department of Highways
District 9**

U. S. Route 219 North
Elkins, WV 26241

Ms. Melinda Hart

Safety and Environmental Coordinator
304/940-9402

Hess Oil Company, Inc.

102 West Ridge Road

Elkins, WV 26241

Mr. Bill Brown

General Partner

304/669-3333

3. Management and Staffing Capabilities

"TEAMING" WITH THE WEST VIRGINIA LAND STEWARDSHIP CORPORATION

MSES believes in the "Expanded Team" approach. We think that quality projects result from well-planned designs and continuous coordination between our staff (the Project Team) and the West Virginia Environmental Protection Office of AML&R, and West Virginia Department of Environmental Protection (WVDEP) permitting staff. We accomplish this by:

- ☐ Involving the WVAML&R and the WVDEP, Office of Special Reclamation (OSR) staff in the planning of the project and in all work development meetings.
- ☐ Developing a Project Management Plan that will explicitly include all Team members in information exchange and in milestone product preparation.
- ☐ Setting standards for detail and production based explicitly on the needs of the WVAML&R for the permitting of the Pine Bluff (Wilson) Refuse Project.

PROJECT TEAM

The well-qualified and experienced individuals assigned to the MSES Team for this project are described below. The general qualifications and roles of key project management personnel are outlined below, and a description of key personnel by category is included at the end of this section.

Project Management

Given MSES' experience with projects of this type, the expertise and direction of three (3) principals/senior personnel are anticipated to ensure the scheduling and dedication of MSES' resources for the activities expected in conjunction with this proposal: Mr. John J. Keeling, PE, CIH, CSP, QEP, LRS, Principal-In-Charge; Mr. C. H. "Sam" Muncy, Jr., PS, PE, Senior Project Engineer; and Mr. L. M. Rine, BSME, QA/QC Officer.

Mr. John J. Keeling, PE, CSP, QEP - As Principal-In-Charge, Mr. Keeling will be the primary director of the Project Team. Mr. Keeling will coordinate project activities of the contributing staff, directly perform certain portions of the work, and coordinate project findings and results. He has forty-four (44) years of professional experience in the private and public sectors, and an extensive background in all aspects of environmental engineering and compliance, safety and industrial hygiene, waste management, hydrogeology, and permitting issues. Mr. Keeling is a registered Professional Engineer in numerous states, a Certified Industrial Hygienist, a Certified Safety Professional, a Qualified Environmental Professional, and a Licensed Remediation Specialist for the State of West Virginia. He will be directly involved in the majority of the activities foreseen with this special reclamation project.

Management and Staffing Capabilities

Project Management (continued)

Mr. C. H. "Sam" Muncy, Jr., BSCE, MSCE, PS, PE - Mr. Muncy will serve as Senior Project Engineer for the various tasks foreseen for this project. His expertise as a licensed land surveyor, multi-state registered Professional Engineer, Certified Landfill Manager (SWANA), WVDEP SWANA training, and a Geosynthetic Accreditation Institute, certified in both clay and geosynthetic liners, his forty-four (44) years of experience, and his extensive involvement with the mining, water and waste management industry are unparalleled on both a local and regional basis. Mr. Muncy's knowledge of special reclamation engineering design, permitting, and applicable requirements, as well as his rapport with agency personnel, would greatly facilitate the planning for the acid mine drainage, hydrologic design and permitting development. Mr. Muncy will coordinate master planning activities, and will directly perform the majority of those anticipated for the final report and associated tasks. He will also serve as the primary liaison between the WVLSL and WVDEP staff and the MSES Project Team, and will be the day-to-day contact for prompt, knowledgeable, immediate response to client requests or concerns.

Quality Assurance Review - Lawrence M. Rine, BSME, MSES Principal, will provide project oversight to the project activities. Mr. Rine is one of MSES' most experienced staff professionals, with over forty-six (46) years of experience. Mr. Rine's knowledge of special reclamation and acid mine drainage treatment and waste management afford him the unique background and expertise to serve as the QA/QC Principal for the LaRosa Fuels Revoked Permit Number S-1051-86 special reclamation design and permitting.

Key Personnel Listing

The feasibility studies and planning for the special reclamation design and permitting development will require the efforts of a diverse group of professionals. A comprehensive listing of these individuals would prove unwieldy; therefore, the names and titles of project-specific key personnel from among MSES' professional staff are provided by the Key Personnel Listing table following this page. Found at the close of this section are brief one- page resumes, which highlight the education, experience, and expertise of various key individuals that may be assigned to this project.

Management and Staffing Capabilities

KEY PERSONNEL LISTING

Team Member	Discipline	Total Years Experience	Site Studies and Data Collection	Cap Design and Permitting
Management Team				
John J. Keeling, PE, CIH, CSP	Managing Principal	44	•	•
C. H. "Sam" Muncy, PS, PE	Senior Project Manager	44	•	•
Feasibility Study and Master Planning				
Catherine R. Monahan, MSGS	Geologist/Hydrogeologist	26	•	•
Susan Hickman	Biologist	18	•	•
Lori L. Steele, BS	Meteorologist/Air	35	•	•
Rodney D. Kidd, BSCE	Civil Engineer/Infrastructure	41	•	•
Rex B. Tennant, II, BSCE	AMD Treatment/Environmental Chemist	44	•	•
Daniel L. Trembly, AS, PS	Field Coordinator	29	•	•
Sharon R. Cottrill, BSLA	Drafting Coordinator	40	•	•
Daniel T. Arnold, BS, MSL	AMD Treatment/Environmental Permitting	28	•	•
Luke V. Richmond, CPSW, PPP	Water/Waste treatment Plant Construction Stormwater	28	•	•
Jeffrey K. Pauley, PE, PS	Electrical Engineer	25	•	•
QA/QC				
Lawrence M. Rine, BSME	Managing Principal	48	•	•
Louis P. Saas, BSEE	QA/QC Engineer	45	•	•
Terry Fleming	AMD/Mine Reclamation Inspector	36	•	•

Although not specifically listed by the table, additional experienced support staff professionals and technicians may be used as required to satisfy the project schedule.

Management and Staffing Capabilities

MEMBERSHIPS AND AFFILIATIONS

As listed by the following, members of MSES' professional staff actively participate in various public, professional, and service organizations and committees. For example, **Mr. Lawrence M. Rine**, Principal and President, was appointed to the West Virginia State School Building Authority's Indoor Air Quality Committee; **Mr. John J. Keeling**, Principal and Vice President, serves as Chairman of the Harrison County Local Emergency Planning Committee and City of Clarksburg City Engineer; **Mr. Ron Cutlip**, Senior Safety/Environmental Specialist, serves as Vice President of the American Society of Safety Engineers; and MSES has been sworn in as the City Engineer and Public Works Director for the City of Clarksburg, West Virginia.

In addition, **Mr. C. H. "Sam" Muncy**, Senior Project Engineer, serves regularly as guest lecturer for West Virginia University/School of Engineering coursework related to acid mine drainage special reclamation projects, and their costs. Of special note, **Mr. Muncy** and MSES Principal and President **Mr. Lawrence Rine** were appointed by Judge Frederick P. Stamp, Jr. of the U. S. District Court, Northern District of WV, to serve as Special Master in the civil action between a citizens' environmental group and an inactive solid waste facility in Braxton County, West Virginia. Their findings were presented to the Court and were used as a basis for the proper closure of the facility under the Landfill Closure Assistance Program (LCAP). Mr. Muncy and Mr. Rine both are still Special Masters assisting the U. S. District Court in landfill matters.

The involvement of our employees with these associations, as well as our project experience with Towns, Cities, and County, State and Federal agencies, has allowed MSES to remain abreast of changes in agency policies and the regulatory climate. In addition, these memberships allow for direct lines of communication with the various agencies, their staff, and the public at large, with MSES acting as a sounding board for new regulations and ideas, as well as offering our input regarding policy changes prior to their enactment. Many of these agencies have come to rely on MSES' multi-disciplinary expertise, and we welcome the opportunity to share the benefit of our knowledge and dedication with these groups.

Quality Control

Quality control results primarily from the attention to quality given by each team member. Quality is a continuous, day-in and day-out attitude of the MSES staff, more so than a program. However, our attention to quality has also been developed in a program as follows:

Our Continuous Quality Improvement (CQI) Program

MSES has a firm-wide CQI program that all employees participate in every week. It develops effective problem identification and solving skills that apply to all of our projects. This program is monitored by managers throughout the firm to be sure that we are constantly improving our technical and management skills.

Our Continuous Quality Improvement (CQI) Program (continued)

Even more important, our CQI program engenders an attitude in all of the staff to look for ways and ideas to improve the quality and effectiveness on every assignment.

Project Management and Quality Assurance Plans

Every project includes a specific project management and quality assurance plan. This assures that our projects meet our standards for correct and effective projects.

Our Standards for Successful Projects

MSES has a stellar reputation among owners, regulators, and contractors for all phases of environmental compliance, for the development of corrective solutions and effective, complete, quality designs that can be executed with confidence. This reputation is the culmination of over 40 years of successful projects, founded upon our extensive environmental monitoring and compliance experience, our knowledge of jurisdictional protocol and applicable regulations, and our ability to develop corrective solutions, which not only satisfy regulatory requirements, but manage to do so in a cost-effective manner. We are proud of our accomplishments in the engineering and environmental arenas, and our ever-growing roster of satisfied repeat clients attests to our continued commitment to quality, dedication, and service.

4. Support Services

COMPUTERS/CADD

MSES has successfully integrated the disciplines of engineering, surveying, mapping, and data processing into a very efficient blend of talent. Computer services at MSES began in 1984; since then, the firm has continuously augmented the equipment capabilities and system support staff.

MSES maintains a computer-aided design and drafting (CADD) system, which increases the efficiency of planners, designers, and engineers, and allows greater design flexibility.

MSES has more than thirty (30) years of direct CADD experience with its own in-house CADD system, consisting of both AutoCAD and InterGraph CADD work stations. Our survey equipment, GPS instruments, and hand-held computerized data collectors are integrated to download field information directly into our in-house network system.

The growing in-house library (additional software to those provided by Section 14 Consultants Qualification Questionnaire) of computer programs includes a collection of software for survey and mapping, hydrologic/hydraulic studies, water resources management, water system facility design, treatment plant design, groundwater modeling, geotechnical investigations, air issues, data management, and cost estimating. Frequently used programs include:

EAGLE POINT 2009 - Q3 CIVIL DESIGN	CARLSON - CIVIL DESIGN & SURVEY	CAD 2009	SEDCAD4	STABLE7
WINSTABL	SURFER	HELP3	GTGS	WINLOG
LANDGEM	AIR4	HEC-1	ISC3	SCREEN3
TR20	SURVCADD	HEC-2	MOC	HY8
TR55	LICONTOUR	HECRAS	HYDRAFLOW-7	MODFLOW
STORMCAD	TRAVERSE PC	KYPIPE5	CIVILTOOLS	NWS
SEDCAD	SMI	MAPS	WSP2	HMR52
ARC/INFO	ARC/VIEW	URB-1	DBASE-IV	ALPHA-4
EXCEL	MICROSOFT ACCESS	QUATTRO PRO	LOTUS APPROACH	LOTUS 1-2-3
ADOBE ACROBAT/ PHOTO DELUXE	MICROSOFT POWERPOINT	MICROSOFT OUTLOOK	AUTOCAD/ AUTOCAD LIGHT	PHOTO PLUS
COREL PRESENTATION	DELORME 3D TOPO	BP RISC	COREL CENTRAL	CPDM
BH LOGGER	LAPLINK	I-STEPS	MGI PHOTOSUITE	PARADIGM
PHOTO PLUS	RMP SUBMIT	TANKS	LAWYER 99	ERS 99
QUICKCAD	SNAGIT	TIERII WIN	QUICKEN	E-ONE
GLY-CALC CONVERSIONS	POW-R DESIGNER	LITHONIA VISUAL	SWEETS CD	TOPO USA
AUTODESK VOLO VIEW	COREL WORDPERFECT	TR SS	TPA SOFTWARE	ATRS 99

4. Support Services

MASTERSPEC MECHANICAL/ ELECTRICAL	MASTERSPEC OUTLINE ARCHITECTURAL/ STRUCTURAL/CIVIL	WINZIP	MICROSOFT STREETS 98WEATHER LINK	
MASTERSPEC SMALL PROJECT	MASTERSPEC STRUCTURAL/ CIVIL	QUICK BOOKS PRO	CONVERSION PLUS	MICROSOFT WORD
LEICA FLIKIN	AIRBORNE GPS REDUCTION	AUTODESK LAND DEVELOPMENT DESKTOP	MICRO STATION	EAGLE POINT 98
ALBANY TRIANGULATION	SPECTRA PRECISION TERRAMODEL	KORK DIGITAL MAPPING	ERDA IMAGINE	

In addition to engineering software, MSES uses the latest PC-based support tools to manage and enhance its assignments, including project management, spreadsheet, database management, graphic, word processing, and desktop publishing.

GEOGRAPHIC INFORMATION SYSTEMS (GIS)

MSES utilizes Geographic Information Systems (GIS) services for specialized analyses and geographically-oriented database construction. We have the latest versions in-house of full-service GIS programs, including Small Worlds, ArcInfo, and ArcView GIS, and have the distinction of having trained personnel in-house with the knowledge and experience in the design, use, and generation of displays with these applications. Our data management tools have been upgraded with the entire suite of add-on modules (ArcInfo Geocoding and Visual Basic, and ArcView 3D, spatial, Streetmap, network, and TASC tracking analyst and Geoprocessing (re-addressing extensions).

SURVEY EQUIPMENT

Each MSES survey crew is equipped with an assigned four-wheel drive vehicle that provides access to survey points and survey locations in all terrains at all times of the year. MSES also has All Terrain Vehicles (ATV) mounted on trailers that can be towed to extreme terrain sites. Each crew is equipped with electronic total stations, with integrated data collectors. Each of the stations is certified for first and second order accuracy. In addition, the crews utilize Global Positioning Survey (GPS) equipment, that allows for sub-meter resolution, in two (2) configurations; the first is backpack/ monopole-mounted, and the second is comprised of tripod-mounted dual frequency transmittal and receiving GPS units. These GPS survey units consist of Mobil Mapper CX for each of the six MSES survey crews and six RTK Total Station GPS Sub-Centimeter Units. Each survey crew is also equipped with a laptop computer, which allows for near instantaneous downloading and transmittal of data to MSES' office, for rapid processing and development of associated mapping and other related uses. In addition to this electronic equipment, each survey team is equipped with the support field and office equipment required to keep the crews and their operations running smoothly.

5. Related Prior Experience

The MSES Project Team currently provides a wealth of services to many public and private landfill, mining, industry, and public waste facilities throughout West Virginia and many of the surrounding states. Typically the services provided by the individual and collective team members may be ascribed to the following general categories:

- ❑ **Special Reclamation**
 - Site Evaluations
 - Regulatory Interaction
 - Test Pit and Soil Sampling
 - Hydrogeologic Evaluations
 - Mine seals
 - Blasting Studies and Pre-Blast Surveys
 - Soils Analysis and Mapping
 - Design and Permitting
 - Refuse Capping
 - Liner Systems
 - Gas Venting
 - AMD Collection
 - AMD Treatment
 - Special Waste Handling Systems
 - Baseline Hydrologic Studies
 - Design, Construction Documents, Construction Management, and QA/QC

- ❑ **Waste Facilities**
 - Siting
 - Waste Characterization
 - Closure
 - Regulatory Interaction
 - Public Awareness
 - Hydrogeologic Evaluations/Protection
 - Liner Systems
 - Consent Decrees - State and Federal
 - Design and Permitting
 - Construction Documents, Construction Management, and QA/QC

- ❑ **Groundwater**
 - Hydrogeologic Investigations
 - Aquifer Characterization
 - Groundwater Modeling
 - Aquifer Testing
 - Monitoring Well Installation and Development
 - Sampling and Analysis Programs
 - Monitoring
 - Statistical Analyses
 - Groundwater Protection Planning and Plan Development

Related Prior Experience

- ☐ **Stormwater and Sediment Control**
 - Pre- and Post-Construction Management
 - Design
 - Permitting
 - Construction Documents, Construction Management, and QA/QC
 - NPDES Sampling, Analysis and Compliance
 - Inspections

- ☐ **AMD and Wastewater Treatment**
 - Evaluations and Volume Determination
 - Collection Systems
 - Treatment
 - Storage
 - Disposal
 - Permitting
 - Sampling, Analysis, and Compliance Monitoring

- ☐ **Planning**
 - Siting Studies
 - Demographics
 - Air Space/Site Utilization
 - Permitting Requirements (Air/Stormwater/Leachate/Landfill/Closure)
 - Public Service Commission (Certificates of Need/Rate Analysis)

- ☐ **Earth Sciences**
 - Geologic Investigations
 - Soil Surveys
 - Slope Stabilities
 - Sedimentation Evaluations

- ☐ **Environmental**
 - Impact Assessments
 - Investigations (Biological/Chemical/Water Quality/Noise/Air)
 - Site Reviews/Past Activities
 - Delineations-Wetlands; Streams

- ☐ **Water Resources**
 - Surface and Groundwater Hydrology
 - Water Pollution
 - Water Resource Impact Evaluation
 - Wetlands Identification
 - Perennial Stream Evaluations

- ☐ **Document Preparation**
 - Mining Applications (Pre and post mining studies)
 - State and Federal Discharge Applications
 - Public Service Commission (Siting Analysis/Demonstration of Need/Economic Analysis)
 - Associated Documents/Plans Required in Support of Permitted Activities

Related Prior Experience

As a reward for MSES' knowledge, responsiveness, and diligence, a great deal of trust has been established between MSES and our clientele. This has resulted in the maintenance of numerous master service/indefinite delivery agreements and contracts for many of our long-term clients, some of which are identified below:

- ☐ **City of Clarksburg, City Engineer** - MSES was selected in January 1999 as the Engineer for the City of Clarksburg, West Virginia, with MSES staff members serving as the City's Engineer/Public Works Director. MSES will provide the City with all its engineering, planning, code inspections, environmental, infrastructure, and funding/budget planning needs.
- ☐ **Dominion Transmission, Inc. (formerly CNG Transmission Corporation)** - MSES has maintained a master service agreement with this firm since 1990, for the provision of engineering, surveying, mapping, and corrosion surveys.
- ☐ **Dominion Hope (formerly Hope Gas, Inc.)** - Since 1992, MSES has retained a master service agreement with Hope Gas, which includes engineering, surveying, mapping, environmental sampling, reviews, assessments, and right-of-way acquisitions.
- ☐ **Dominion Peoples (formerly Peoples Natural Gas)** - MSES currently holds a master service agreement with this company for corrosion engineering, corrosion surveys, and internal corrosion sampling and analysis.
- ☐ **Columbia Gas Transmission Corporation** - MSES continues to maintain a master service agreement with Columbia for system-wide sampling and analysis of soils and liquids associated with external and internal pipeline corrosion.
- ☐ **West Virginia Department of Environmental Protection** - MSES has been selected by the Landfill Closure Assistance Program (LCAP) to perform site characterization, soil analysis, leachate and mine drainage collection systems design and special reclamation design to close and provide monitoring and treatment systems for the site leachate seeps, and surface water at the old surface mine site where the Clarksburg MSW Landfill was operated from the early 1970's to mid 1990's.

Related Prior Experience

- ❑ **USDA Natural Resources Conservation Service** - MSES is currently in the fourth year of a five (5) year indefinite delivery contract to conduct county- wide water resources studies throughout the State of West Virginia. These involve compilation and analysis of extensive physical, chemical, geographic, and socio-economic data in order to develop feasible planning documents for the provision of safe, reliable, drinking water supplies and wastewater treatment and collection systems for designated counties throughout the state. The development of the plans relies heavily on evaluations of surface water and groundwater resources and hydrogeologic investigations and modeling.
- ❑ **United States Department of the Army, Huntington District, Corps of Engineers** - Since 1982 MSES has maintained annual indefinite delivery contracts with the Huntington District of the USACE for Phase I and Phase II environmental screenings and real estate and mineral appraisals.
- ❑ **United States Department of the Army, Pittsburgh District, Corps of Engineers** - Since 1992, MSES has maintained annual indefinite delivery contracts with the Pittsburgh District of the USACE for the same types of activities described above.
- ❑ **United States Postal Service** - In conjunction with this three-year indefinite delivery services contract, MSES has just begun its first year of providing environmental and engineering services for existing and newly-acquired post office sites throughout the States of West Virginia, Virginia, and Kentucky. These services include site selection, surveying, site development planning, permitting, and Phase I and II environmental site reviews.
- ❑ **Dominion Resources, Inc. (formerly CNG Natural Gas Company)** - In July 2014, MSES Consultants, Inc. (MSES) was one (1) of three (3) consultants chosen from an initial pool of fifty-seven (57) environmental companies to provide corporate-wide environmental characterization and site remediation planning throughout (former) CNG Natural Gas Company (CNG)'s operational territory, which extends from the Canadian border to offshore in the Gulf of Mexico and inland areas of Louisiana. MSES was selected for a three-year indefinite delivery contract to assist CNG and its various subsidiaries to conduct site and hydrogeologic evaluations; address their waste storage, treatment, and disposal concerns; identify potential environmental problems and perform reviews and characterizations of these areas; develop clean-up and/or remediation plans; provide interaction with the various State and Federal environmental agencies; coordinate permitting; furnish clean-up/construction quality assurance/quality control oversight and testing; and ensure final site clean-up/program compliance at the conclusion of each project.

RELATED PRIOR EXPERIENCE

To demonstrate our diverse experience in the mining and special reclamation industry, MSES has prepared a summary of our related prior experience, highlighted by the following table. Since the Pine Bluff (Wilson) Refuse Project is located in West Virginia and will entail interaction with West Virginia- based regulatory agencies, we have eliminated from this listing projects located within the seven (7) nearby states of Pennsylvania, Ohio, Maryland, Virginia, New York, Kentucky or Tennessee. The projects listed have been conducted within the last ten (10) years.

In addition to those projects listed in Sections 15 and 17 of the Consultants Qualification Questionnaire, are facilities with whom we have maintained ongoing relationships since the early to mid-1980s. Our public involvement and affiliations with steering committees, regulatory review groups, etc. has allowed MSES to develop a professional and personal rapport with many of the State agencies and their personnel whom will be involved in the reviews and approvals for special reclamation projects.

PROJECT NAME	CLIENT	LOCATION	DESCRIPTION
UHC Hospital Wetlands	United Hospital Center	Harrison County, WV	Identified and characterized the surface and ground water included AMD discharge or the most of the united hospital center. A design was performed to collect and manage the AMD and to obtain a permit with the USACE to mitigate the loss of wetlands by construction of the hospital. MSW designed wetlands and perform QAQC for installation of the wetlands on an abandoned surface mine new Good Hope WV. AMD Mitigation
AMD Mitigation	Meadowfill Landfill, Inc.	Harrison County, WV	Designed a gravity system to separate AMD from underground Pittsburgh mine from groundwater. Mixed intercepted AMD with surface drainage and performed passive treatment by attenuation of natural pH in surface water. Performed settling studies and designed sediment ponds with capacity to remove up to 98 percent of aluminum and iron from site discharge waters. Settling test of the AMD indicated the ph was buffered sufficiently to cause precipitation of iron and aluminum.
AMD Collection	S&S Grading, Inc.	Harrison County, WV	Designed a collection system for AMD to identify and separate seeps and surface mine subsurface flow from ground water and surface water at existing 30 acre landfill and the 55 acre expansion of the landfill.
Nicholas County Landfill Constructed Wetlands Treatment	Nicholas County Solid Waste Authority	Nicholas County, WV	Installed a series of holding ponds and wetlands at the Nicholas county Landfill to treat landfill leachate heavily influenced by Acid Mine Drainage from an unlined portion of the landfill.

Related Prior Experience

PROJECT NAME	CLIENT	LOCATION	DESCRIPTION
Century Mine refuse Pile Reclamation	Allied Waste Inc.	Barbour County, Philippi, West Virginia	Designed and performed construction inspection for an experimental acid mine drainage treatment system using cells filled with short paper fiber and soil mixture as a growth media for wetlands herbaceous and woody plants. The series of cells were designed to provide controlled gravity hydraulics to allow backflow, recirculation, bypass flow and flushing flows with either fresh water or Acid Mine Drainage through individual or multiple wetlands treatment cells.
Coal Refuse Pile reclamation with SPF	Allied Waste Inc.	Philippi, Barbour County, West Virginia	Designed and monitored reclamation of the coal refuse pile for a coal mine preparation plant. The cover was a combination of natural soil mixed with short paper fiber in a ration determined by the slope on which the material was to be placed. A drainage system was installed for the collection and conveyance of AMD seeps from the refuse pile to maintain stability of the cover soil/SPF mixture. A special formula of fertilizer and seeding mixture was developed which resulted in 100 percent vegetative cover with root systems up to 24 inches thick at the end of a two year growing period.
Coal Refuse Pile reclamation with SPF	Allied Waste Inc.	Fairmont, Marion County, West Virginia	Designed and monitored reclamation of the coal refuse pile for a coal mine preparation plant. The cover was a combination of natural soil mixed with short paper fiber in a ration determined by the slope on which the material was to be placed. A drainage system was installed for the collection and conveyance of AMD seeps from the refuse pile to maintain stability of the cover soil/SPF mixture. A special formula of fertilizer and seeding mixture was developed which resulted in 100 percent vegetative cover with root systems up to 24 inches thick at the end of a two year growing period
Thermal Loading Reduction	B E Aerospace	Fenwick, West Virginia	Performed monitoring and data evaluation and designed a rain garden to collect metal roof run off and cooling tower discharge water. The rain garden was a self-sustaining vegetative area with the designed capacity to provide a time period for ground temperatures to reduce the thermal loading in the collected water before release to the receiving stream

Related Prior Experience

PROJECT NAME	CLIENT	LOCATION	DESCRIPTION
Metals Removal and Cooling water System	Armstrong Industries	Jackson County, West Virginia	MSES worked with an industrial client in Jackson County, West Virginia which was having issues complying with National Pollutant Discharge Elimination System (NPDES) permit limits for Temperature, Iron (Fe), Aluminum (Al) and Zinc (Zn). MSES provided design and treatment support for the installation of a cooling pond and metals removal of the wastewater effluent. The treatment design for his particular client was challenging due to the raw material composition which is processed at the facility and compounded by the fact that the receiving stream is impaired for Iron at the discharge location. Consequently, extraordinary effort was necessary to meet the 1.29 mg/L permit limit at the discharge. For this particular project, MSES partnered with a subcontractor to supply a treatment process which provided for pH adjustment of the effluent, oxidation processes to convert the oxidation state of the Iron and a filtration system to remove the Iron.
Re-purpose Abandoned Surface Mine and Highwall Removal	Tire and Rubber, Inc	Lewis County, West Virginia	Designed a liner system to allow repurposing an abandoned surface mine by the removal of highwalls using a shredded Waste Tire monofill permitted under the West Virginia Title 33 CSR 1 Waste management Rule. Included the identification of Acid mine drainage seeps and the separate collection from ground and surface water at the site.
Fayette County Landfill Reclamation	Fayette County Solid Waste Authority	Fayetteville, WV	Expansion feasibility investigation (33 CSR 40); closure, with documentation for regulatory agencies; hydrogeologic investigations and impacts on New River; experimental cover studies; surface water and seeps evaluation, characterization, collection and treatment.
Indefinite Delivery Contract	Fayette County Solid Waste Authority	Fayette County, WV	From 1995-1998 provided on-call engineering, environmental, planning, funding, and technical assistance to the FCSWA for the rectification of outstanding Notices of Violation issued by the State
Clarksburg Landfill Reclamation	City of Clarksburg	Clarksburg, WV	On the site of pre-regulation surface mining performed landfill closure; application for permit; hydrogeologic investigation; monitoring well installation; quarterly sampling/analysis
Randolph-Elkins Landfill Abandoned Surface Mine Re-purpose	City of Elkins	Elkins, WV	On the select pre 1960's surface mining performed modifications to existing Part I and Part II landfill permit; construction documents; construction management; QA/QC activities; surface and seepage management, from both new and closed MSW landfill areas; annual reporting; reclamation planning

Related Prior Experience

PROJECT NAME	CLIENT	LOCATION	DESCRIPTION
County-Wide Water Resources Evaluations	USDA Natural Resources Conservation Service	Various Counties Throughout WV	Five-year indefinite delivery contract to provide County-wide hydrogeologic evaluations and water contamination solutions for groundwater and surface water systems, primarily focusing on providing safe and accessible drinking water. Counties completed to date include McDowell, Randolph, Wetzel, Fayette, Grant, and Pendleton; Hardy County to be completed in 2001.
Mingo County Surface Reclamation and Re-purpose	Mingo County Solid Waste Authority/ Mingo County Redevelopment Authority	Williamson, WV	On a maintain top removal surface mining performed; Siting; Part I and Part II development; Certificate of Need, technical assistance, public meetings; soil analysis and use technical assistance to County Authorities
Meadowfill Surface Reclamation and Re-purpose	Waste Management, Inc.	Bridgeport, WV	At a pre-1970's surface mine site performed; GPP, SPCC Plan, Subtitle D Operating Record, Title V air permit application, soils mapping, soils analysis, acid mine drainage management, and annual reporting since 1992
Meadowfill Surface Reclamation and Re-purpose	Waste Management, Inc.	Bridgeport, WV	At a pre-1970's surface mine site performed; Geological investigations, consisting of test pitting, reviews of existing subsurface information, and surficial geologic mapping for borrow and construction materials.
Meadowfill Landfill	Waste Management, Inc.	Bridgeport, WV	On the site of a pre-1970's surface mine, MSES was the Engineer-of- Record since 1988, beginning with initial siting and planning of surface mine repurposing as a landfill; hydrogeologic investigations; Part I and Part II completion and submittals; Certificate of Need; Harrison County Solid Waste Authority approvals; public awareness meetings; soils study; construction planning, construction documents, support and QA/QC; site surveys and mapping; day-to-day technical assistance and monthly OSHA safety training and related services
Tucker County Surface Mine Reclamation and Re-purpose as a Landfill	Tucker County Solid Waste Authority	Thomas, WV	Overlay of new liner system over existing landfill material; Part I and Part II development; Certificate of Need; Construction documents, construction management, and construction QA/QC; surface water and seep water collection system; hydrogeologic and geologic evaluations of expansion area; permitting; soils mapping; composting facility pilot program for fish processing plant waste
S&S Landfill	Eastern Environmental	Good Hope, WV	On the site of a pre-1970's surface mine and landfill performed; Siting; hydrogeologic investigation and monitoring well installation; Part I and Part II; Certificate of Need; wetland identification and removal; permitting and technical assistance to re-purpose the site as a Subtitle D Landfill.

Related Prior Experience

PROJECT NAME	CLIENT	LOCATION	DESCRIPTION
Braxton County Citizens' Civil Action	Central WV Refuse, Inc.	Gassaway, WV	Appointed by Federal Judge as Special Lawmasters to investigate hydrogeologic conditions, leachate generation, leachate collection and treatment, and final closure of an inactive landfill; also involved interaction with regulatory agencies, citizens' action groups, and class action law firms; developed report of hydrogeologic conditions, leachate production, and closure needs; negotiated settlement between citizens' group, parties to class action suit, and Central WV Refuse; coordinated closure under LCAP Program

General

MSES Consultants, Inc. confirms the Team's intention and willingness to:

1. Abide by applicable provisions of codes and regulations of the State of West Virginia.
2. Employ registered professional engineers, architects, and other pertinent personnel (surveyors, remediation specialists, etc., as applicable) licensed to practice in the State of West Virginia.
3. Prepare detailed proposals/work plans, with estimated fees, and to execute agreements for services based thereon, including fixed fees for well identified scopes of work, or other mutually agreeable forms of compensation.
4. Comply with all other civil rights, conflict of interest, records access, or other laws, regulations or requirements that may be referenced in conjunction with each project.

Quality Commitment

MSES Consultants, Inc. is committed to providing high quality environmental and engineering services to its customers through its continuous quality improvement program that involves all personnel in a systematic, logical process to continually improve the firm's work practices and procedures. MSES' approach to quality is composed of four elements: the individual, procedures for project execution, procedures for controlling and assuring the quality of our services, and the continuous quality improvement process.

The Individual

Since 1976, we have relied on the care, diligence, imagination, intelligence, and commitment of our personnel to provide quality designs and quality services. Recent policies and procedures emphasize the importance and contribution of each individual in achieving our quality goals.

Procedures for Project Execution

Standard procedures for project execution are adopted by MSES, providing for project management with current guidelines and procedures for managing projects and assuring quality in our technical performance, from the proposal stage through the close-out stage.

QA/QC Procedures

The quality assurance/quality control procedures are incorporated into the technical quality control of services provided to our clients. A set of guidelines and procedures is established for each type of service provided by the firm: planning reports and studies, design services, construction phase services, and facility inspection services. These procedures are used in conjunction with project technical and management controls, which set forth the following criteria on which to base successful completion of a project: project schedule, project budget, scope requirements, project objectives, and client satisfaction.

Continuous Quality Improvement

Continuous Quality Improvement, or CQI, MSES' adaption of Total Quality Management, is a systematic, firm-wide process of improving services we perform for our clients by improving the way we work and the services we provide. CQI is concerned with identifying barriers and removing those barriers. CQI achieves this by making quality a part of everyone's job description. We train each person in CQI and assign him or her to a Quality Improvement Meeting Unit (QIMU). These QIMU's hold one-hour weekly meetings to identify barriers and to propose improvements or changes in the way we work. In this way, CQI provides a vehicle for the recognition and re-involvement of all employees in improving the firm's methods, procedures, and operations.

West Virginia Department of Environmental Protection Office of Abandoned Mine Land and Reclamation
Attachment "B"

AML AND RELATED PROJECT EXPERIENCE MATRIX																							
PROJECT	Exp. Basis C-Corp P-Personal *	Additional info provided in Section (s) **	PROJECT EXPERIENCE REQUIREMENTS															Primary staff participation/capacity *** M-Management P-Professional					
			Forfeited Surface Mine Reclamation	Forfeited Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/ Eval.	Remaining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation / Mitigation	Hazardous Waste Disposal	Project Specification	Water Quality Evaluation / Mitigation Replacement	Construction Inspection / Management	Water Treatment	Equipment / Structure Removal	Stream Restoration	Geotechnical / Stability	NPDES / Stormwater Preparation	John Keeling	Larry Rine	Charles Muncy	Dan Arnold	Rex Tennant
Martinka Refuse	C	19				X	X			X	X	X	X	X				X	M	P	P		
Meadowfill AMD	C	19				X					X	X	X	X		X		X	P	M	M		
Meadowfill Landfill	C	19	X		X	X	X		X	X	X	X	X	X	X	X	X	X	P	M	P		
Dola Reclamation	C	19				X					X	X	X	X			X	X	M		P		
S&S AMD	C	19				X				X	X	X	X	X	X		X	X		M	P		
Arch Coal AMD	C	19				X					X	X	X	X	X			X		M	P		
Armstrong Cooling	C	19				X					X	X	X	X	X			X	M			P	
Arch Coal Refuse	C	19									X	X	X	X			X	X	M		P		
UHC Hospital	C	19				X					X	X	X	X				X	M				P
S&S Landfill	C	19				X				X	X	X	X	X	X		X	X		M	P	P	P
City of Clarksburg	C	19				X				X	X	X	X	X	X		X	X		M	P	P	P

*List whether project experience is corporate or personnel based or both

** Use this area to provide specific sections or pages if needed for reference

*** List primary design personnel and their functional capacity for the projects listed.

EXPRESSION OF INTEREST
Pine Bluff (Wilson) Refuse CRQS: DEP18*11

SECTION FIVE: TERMS AND CONDITIONS

Terms and conditions begin on the next page.

GENERAL TERMS AND CONDITIONS:

- 1. CONTRACTUAL AGREEMENT:** Issuance of a Award Document signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid 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: This Contract becomes effective on _____ and extends for a period of _____ year(s).

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 one thousand ninety-five (1,095) calendar 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 maintenance, monitoring, or warranty services will be provided for _____ year(s) thereafter.

☐ **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.

☐ **Other:** See attached.

4. NOTICE TO PROCEED: Vendor shall begin performance of this Contract immediately upon receiving notice to proceed unless otherwise instructed by the Agency. Unless otherwise specified, the fully executed Award Document will be considered notice to proceed.

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 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.

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 below must be provided to the Purchasing Division by the Vendor as specified below.

☐ **BID BOND (Construction Only):** Pursuant to the requirements contained in W. Va. Code § 5-22-1(c), All Vendors submitting a bid on a construction project shall furnish a valid bid bond in the amount of five percent (5%) of the total amount of the bid protecting the State of West Virginia. The bid bond must be submitted with the bid.

☐ **PERFORMANCE BOND:** The apparent successful Vendor shall provide a performance bond in the amount of _____. The performance bond must be received by the Purchasing Division prior to Contract award. On construction contracts, the performance bond must be 100% of the Contract value.

☐ **LABOR/MATERIAL PAYMENT BOND:** The apparent successful Vendor shall provide a labor/material payment bond in the amount of 100% of the Contract value. The labor/material payment bond must be delivered to the Purchasing Division prior to Contract award.

In lieu of the Bid Bond, Performance Bond, and Labor/Material Payment Bond, the Vendor may provide certified checks, cashier's checks, or irrevocable letters of credit. Any certified check, cashier's check, or irrevocable letter of credit provided in lieu of a bond must be of the same amount and delivered on the same schedule as the bond it replaces. A letter of credit submitted in lieu of a performance and labor/material payment bond will only be allowed for projects under \$100,000. Personal or business checks are not acceptable. Notwithstanding the foregoing, West Virginia Code § 5-22-1 (d) mandates that a vendor provide a performance and labor/material payment bond for construction projects. Accordingly, substitutions for the performance and labor/material payment bonds for construction projects is not permitted.

☐ **MAINTENANCE BOND:** The apparent successful Vendor shall provide a two (2) year maintenance bond covering the roofing system. The maintenance bond must be issued and delivered to the Purchasing Division prior to Contract award.

☐ **LICENSE(S) / CERTIFICATIONS / PERMITS:** In addition to anything required under the Section entitled Licensing, of the General Terms and Conditions, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits prior to Contract award, in a form acceptable to the Purchasing Division.

☐

☐

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☐

The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications prior to Contract award 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. Subsequent to contract award, and prior to the insurance expiration date, 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 mandated herein, including but not limited to, policy cancellation, policy reduction, or change in insurers. The insurance coverages identified below must be maintained throughout the life of this contract. The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether or not that insurance requirement is listed in this section.

Vendor must maintain:

☒ **Commercial General Liability Insurance** in at least an amount of:

\$1,000,000.00

☒ **Automobile Liability Insurance** in at least an amount of: \$1,000,000.00

☒ **Professional/Malpractice/Errors and Omission Insurance** in at least an amount of:

\$1,000,000.00

☐ **Commercial Crime and Third Party Fidelity Insurance** in an amount of:

☐ **Cyber Liability Insurance** in an amount of: _____

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

☒ **\$2,000,000.00 Aggregate**

☐

☐

☐

☐

9. WORKERS' COMPENSATION INSURANCE: The apparent successful 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. [Reserved]

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

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.

14. PAYMENT: Payment in advance is prohibited under this Contract. Payment may only be made after the delivery and acceptance of goods or services. The Vendor shall submit invoices, in arrears.

15. PURCHASING CARD ACCEPTANCE: The State of West Virginia currently utilizes a Purchasing Card program, administered under contract by a banking institution, to process payment for goods and services. The Vendor must accept the State of West Virginia's Purchasing Card for payment of all orders under this Contract unless the box below is checked.

☒ Vendor is not required to accept the State of West Virginia's Purchasing Card as payment for all goods and services.

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 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.

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 with regard to 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. Notwithstanding the foregoing, Purchasing Division approval may or may not be required on certain agency delegated or exempt purchases.
- 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. BANKRUPTCY:** In the event the Vendor files for bankruptcy protection, the State of West Virginia may deem this Contract null and void, and terminate this Contract without notice.
- 31. 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>.

32. 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.

33. 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.

34. 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.

35. VENDOR CERTIFICATIONS: By signing its bid or entering into this Contract, Vendor certifies (1) that its bid or offer was made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, person or entity submitting a bid or offer for the same material, supplies, equipment or services; (2) that its bid or offer is in all respects fair and without collusion or fraud; (3) 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; and (4) that it has reviewed this Solicitation in its entirety; understands the requirements, terms and conditions, and other information contained herein.

Vendor's signature on its bid or offer also affirms that neither it nor its representatives have any interest, nor shall 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. The individual signing this bid or offer on behalf of Vendor certifies that he or she is authorized by the Vendor to execute this bid or offer or any documents related thereto on Vendor's behalf; that he or she is authorized to bind the Vendor in a contractual relationship; and that, to the best of his or her knowledge, the Vendor has properly registered with any State agency that may require registration.

36. 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.

37. 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.

38. PURCHASING AFFIDAVIT: In accordance with West Virginia Code § 5-22-1(i), the contracting public entity shall not award a contract for a construction project to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees. Accordingly, prior to contract award, Vendors are required to sign, notarize, and submit the Purchasing Affidavit to the Purchasing Division affirming under oath that it is not in default on any monetary obligation owed to the state or a political subdivision of the state.

39. ADDITIONAL AGENCY AND LOCAL GOVERNMENT USE: This Contract may be utilized by other agencies, spending units, and political subdivisions of the State of West Virginia; county, municipal, and other local government bodies; and school districts ("Other Government Entities"). Any extension of this Contract to the aforementioned Other Government Entities must be on the same prices, terms, and conditions as those offered and agreed to in this Contract, provided that such extension is in compliance with the applicable laws, rules, and ordinances of the Other Government Entity. If the Vendor does not wish to extend the prices, terms, and conditions of its bid and subsequent contract to the Other Government Entities, the Vendor must clearly indicate such refusal in its bid. A refusal to extend this Contract to the Other Government Entities shall not impact or influence the award of this Contract in any manner.

40. 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.

41. 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.requisitions@wv.gov.

42. BACKGROUND CHECK: In accordance with W. Va. Code § 15-2D-3, the Director of the Division of Protective Services shall require any service provider whose employees are regularly employed on the grounds or in the buildings of the Capitol complex or who have access to sensitive or critical information to submit to a fingerprint-based state and federal background inquiry through the state repository. The service provider is responsible for any costs associated with the fingerprint-based state and federal background inquiry.

After the contract for such services has been approved, but before any such employees are permitted to be on the grounds or in the buildings of the Capitol complex or have access to sensitive or critical information, the service provider shall submit a list of all persons who will be physically present and working at the Capitol complex to the Director of the Division of

Protective Services for purposes of verifying compliance with this provision. 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.

43. 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. The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:
- c. 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
- d. 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.

44. 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.

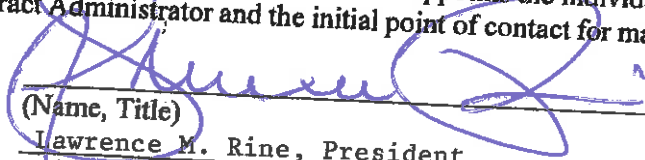
45. INTERESTED PARTY SUPPLEMENTAL DISCLOSURE: W. Va. Code § 6D-1-2 requires that for contracts with an actual or estimated value of at least \$100,000, the vendor must submit to the Agency a supplemental disclosure of interested parties reflecting any new or differing interested parties to the contract, which were not included in the original pre-award 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. "Interested parties" means: (1) A business entity performing work or service pursuant to, or in furtherance of, the applicable contract, including specifically sub-contractors; (2) the person(s) who have an ownership interest equal to or greater than 25% in the business entity performing work or service pursuant to, or in furtherance of, the applicable contract; and (3) the person or business entity, if any, that served as a compensated broker or intermediary to actively facilitate the applicable contract or negotiated the terms of the applicable contract with the state agency: Provided, That subdivision (2) shall be inapplicable if a business entity is a publicly traded company: Provided, however, That subdivision (3) shall not include persons or business entities performing legal services related to the negotiation or drafting of the applicable contract. The Agency shall submit a copy of the disclosure to the Ethics Commission within 15 days after receiving the supplemental disclosure of interested parties.

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

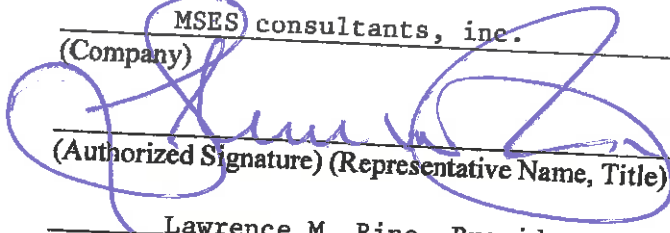
- 1. PLAN AND DRAWING DISTRIBUTION:** All plans and drawings must be completed and available for distribution at least five business days prior to a scheduled pre-bid meeting for the construction or other work related to the plans and drawings.
- 2. PROJECT ADDENDA REQUIREMENTS:** The Architect/Engineer 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 AIA A101-2007 and A201-2007 or the A107-2007 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.
- 4A. PROHIBITION AGAINST GENERAL CONDITIONS:** Notwithstanding anything contained in the AIA Documents or the Supplementary Conditions, the State of West Virginia will not pay for general conditions, or winter conditions, or any other condition representing a delay in the contract. The Vendor is expected to mitigate delay costs to the greatest extent possible and any costs associated with Delays must be specifically and concretely identified. The state will not consider an average daily rate multiplied by the number of days extended to be an acceptable charge.
- 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.

4.

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


(Name, Title)
Lawrence M. Rine, President
(Printed Name and Title)
P. O. Drawer 190, Clarksburg, WV, 26302-0190
(Address)
304.624.9700/304.622.0981
(Phone Number) / (Fax Number)
larry@msesinc.com
(email address)

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

MSES consultants, inc.
(Company)

(Authorized Signature) (Representative Name, Title)
Lawrence M. Rine, President
(Printed Name and Title of Authorized Representative)
May 22, 2018
(Date)
304.624.9700/394.622.0981
(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM **SOLICITATION NO.:**

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

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

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

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

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

MSES consultants, inc.
 Company

Authorized Signature

July 9, 2018

Date

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

West Virginia Ethics Commission



Disclosure of Interested Parties to Contracts

Pursuant to W. Va. Code § 6D-1-2, a state agency may not enter into a contract, or a series of related contracts, that has/have an actual or estimated value of \$100,000 or more until the business entity submits to the contracting state agency a Disclosure of Interested Parties to the applicable contract. In addition, the business entity awarded a contract is obligated to submit a supplemental Disclosure of Interested Parties reflecting any new or differing interested parties to the contract within 30 days following the completion or termination of the applicable contract.

For purposes of complying with these requirements, the following definitions apply:

"Business entity" means any entity recognized by law through which business is conducted, including a sole proprietorship, partnership or corporation.

"Interested party" or "Interested parties" means:

- (1) A business entity performing work or service pursuant to, or in furtherance of, the applicable contract, including specifically sub-contractors;
- (2) the person(s) who have an ownership interest equal to or greater than 25% in the business entity performing work or service pursuant to, or in furtherance of, the applicable contract. (This subdivision does not apply to a publicly traded company); and
- (3) the person or business entity, if any, that served as a compensated broker or intermediary to actively facilitate the applicable contract or negotiated the terms of the applicable contract with the state agency. (This subdivision does not apply to persons or business entities performing legal services related to the negotiation or drafting of the applicable contract.)

"State agency" means a board, commission, office, department or other agency in the executive, judicial or legislative branch of state government, including publicly funded institutions of higher education: Provided, that for purposes of W. Va. Code § 6D-1-2, the West Virginia Investment Management Board shall not be deemed a state agency nor subject to the requirements of that provision.

The contracting business entity must complete this form and submit it to the contracting state agency prior to contract award and to complete another form within 30 days of contract completion or termination.

This form was created by the State of West Virginia Ethics Commission, 210 Brooks Street, Suite 300, Charleston, WV 25301-1804. Telephone: (304)558-0664; fax: (304)558-2169; e-mail: ethics@wv.gov; website: www.ethics.wv.gov.

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

Contracting Business Entity: _____ Address: _____

Authorized Agent: _____ Address: _____

Contract Number: _____ Contract Description: _____

Governmental agency awarding contract: _____

☐ Check here if this is a Supplemental Disclosure

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

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

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

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

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

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

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

Signature: _____

Date Signed: May 21, 2018

Notary Verification

State of West Virginia, County of Harrison

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

Taken, sworn to and subscribed before me this 21st day of May, 2018.

Donna L. Barnes

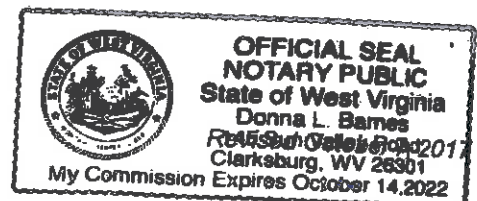
Notary Public's Signature

To be completed by State Agency:

Date Received by State Agency: _____

Date submitted to Ethics Commission: _____

Governmental agency submitting Disclosure: _____



STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: MSES consultants, inc.

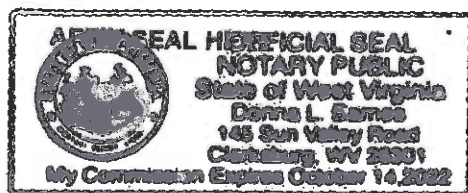
Authorized Signature: [Signature] Date: 05/21/18

State of West Virginia

County of Harrison, to-wit:

Taken, subscribed, and sworn to before me this 21 day of May, 20 18.

My Commission expires October 14, 20 22.



NOTARY PUBLIC Donna L. Barnes

Purchasing Affidavit (Revised 01/19/2018)