

August 12, 2009  
Proposal No. PR-09-100

Mr. Chuck Bowman  
Buyer Supervisor  
State of West Virginia  
Purchasing Division  
P. O. Box 50130  
Charleston, West Virginia 25305

EXPRESSION OF INTEREST  
SITE CHARACTERIZATION STUDY  
LEACHATE MANAGEMENT AND CLOSURE CAP DESIGN  
FOR  
CITY OF CLARKSBURG LANDFILL  
RFQ NO. DEP14706

RECEIVED

2009 AUG 12 A 8:30

PURCHASING DIVISION  
STATE OF WV

Dear Mr. Bowman:

MSES Consultants, Inc. (MSES) is pleased to submit this Expression of Interest for the professional architectural and engineering services being solicited by REQ No. DEP14706 for the site characterization study, leachate management, and closure cap design for the City of Clarksburg Landfill. This submittal includes the following:

- Completed and signed Page 1 of the RFQ.
- Completed Purchasing Affidavit.
- Completed "West Virginia Department of Environmental Protection, Landfill Closure Consultant Qualification Questionnaire".
- Supplemental information for Questionnaire Item 19, which includes an overview of MSES with information describing our qualifications, experience, management and staffing capabilities, and related prior experience. Also, this supplemental information includes a summary of MSES' direct experience with the City of Clarksburg Landfill.

MSES has extensive experience in landfill site characterization studies, leachate management, and closure design for existing and planned landfills. This submittal demonstrates MSES is well qualified to provide these services for the City of Clarksburg's MSW Landfill. Our dedicated staff of full-time in-house professionals have the capabilities and experience to fully realize the Department of Environmental Protection's 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 West Virginia Department of Environmental Protection
- (7) familiarity with applicable solid waste regulations and other federal, state, and local codes and policies.
- (8) extensive knowledge of the City of Clarksburg Landfill
- (9) sincere interest in teaming with the West Virginia Department of Environmental Protection and the City of Clarksburg.

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  
President

LMR/dlb





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

**Request for  
 Quotation**

RFQ NUMBER  
**DEP14706**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**CHUCK BOWMAN  
 304-558-2157**

RFQ COPY  
 TYPE NAME/ADDRESS HERE

**ENVIRONMENTAL PROTECTION  
 DEPARTMENT OF  
 OFFICE OF WASTE MANAGEMENT  
 601 57TH STREET SE  
 CHARLESTON, WV  
 25304 304-926-0499**

DATE PRINTED <b>07/23/2009</b>	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
BID OPENING DATE: <b>08/12/2009</b>		BID OPENING TIME <b>01:30PM</b>		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		962-73		
CITY OF KINGWOOD LANDFILL CLOSURE PROJECT						
EXPRESSION OF INTEREST						
THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING EXPRESSIONS OF INTEREST FOR THE SITE CHARACTERIZATION STUDY, LEACHATE MANAGEMENT AND CLOSURE CAP DESIGN FOR THE CITY OF CLARKSBURG LANDFILL, LOCATED IN HARRISON CO, WV, PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.						
BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THIS CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE Lawrence M. Pine	TELEPHONE 304/624-9700	DATE August 12, 2009
TITLE President	FEIN 55-063279	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

STATE OF WEST VIRGINIA  
Purchasing Division**PURCHASING AFFIDAVIT****VENDOR OWING A DEBT TO THE STATE:**

*West Virginia Code* §5A-3-10a provides that: 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 the debt owed is an amount greater than one thousand dollars in the aggregate.

**PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:**

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor must make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code* and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the *West Virginia Code* may take place before their work on the public improvement is begun.

**ANTITRUST:**

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will 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 the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

**LICENSING:**

Vendors 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 agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

**CONFIDENTIALITY:**

The vendor agrees that he or she 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/noticeConfidentiality.pdf>.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

Vendor's Name: MSES Consultants, Inc.Authorized Signature: Lawrence M. Kine - PresidentDate: August 12, 2009

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
LANDFILL CLOSURE CONSULTANT QUALIFICATION QUESTIONNAIRE**

PROJECT NAME City of Clarksburg Landfill Closure Project		DATE (DAY, MONTH, YEAR) August 12, 2009		FEIN 55-0637279	
1. FIRM NAME MSES Consultants, Inc.		2. HOME OFFICE BUSINESS ADDRESS 609 West Main Street Clarksburg, WV 26301		3. FORMER FIRM NAME Same Name Since 1976	
4. HOME OFFICE TELEPHONE 304.624.9700		5. ESTABLISHED (YEAR) 1976	6. TYPE OWNERSHIP INDIVIDUAL, CORPORATION, PARTNERSHIP, JOINT-VENTURE <b>CORPORATION</b>		6A. WV REGISTERED DBE (DISAVANTAGED BUSINESS ENTERPRISE) YES <input type="checkbox"/> <b>NO</b> <input checked="" type="checkbox"/>
7. PRIMARY OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. (name particular type) PERSONNEL EACH OFFICE MSES Consultants, Inc., 609 West Main Street, Clarksburg, WV 26301; 304.624.9700 (office) Lawrence M. Rine, President and John J. Keeling, PE, CIH, LRS, Vice President. All of MSES' professional staff is located in this office.					
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Lawrence M. Rine, President John J. Keeling, PE, Vice President			8a. NAME, TITLE, & TELEPHONE NUMBER-OTHER PRINCIPALS Joan W. Rine, Secretary-Treasurer 304.624.9700		
9. NUMBER OF PERSONNEL BY DISCIPLINE (Bold Lettering Indicates Minimum Design Team Members) Detailed information On Team To Be Included					
4 ADMINISTRATIVE		1 ECOLOGISTS	1 LANDSCAPE	2 STRUCTURAL	
5 ARCHITECTS		1 ECONOMISTS	ARCHITECTS	ENGINEERS	
4 BIOLOGIST		3 ELECTRICAL	2 MECHANICAL	6 SURVEYORS	
7 CADD OPERATORS		ENGINEERS	ENGINEERS		
1 CHEMICAL ENGINEERS		6 ENVIRONMENTALISTS	2 MINING	19 OTHER	
3 CIVIL ENGINEERS		* ESTIMATORS	ENGINEERS		
2 CONSTRUCTION		2 GEOLOGIST	0 PHOTOGRAMMETRISTS		
4 INSPECTORS		0 HISTORIANS	0 PLANNERS:	102 TOTAL	
17 DESIGNERS		1 HYDROLOGISTS	URBAN/REGIONAL	PERSONNEL	
4 DRAFTSMEN (CADD)			2 SANITARY		
			ENGINEERS		
* The duties of Estimator and Specification Writers are part of the Design Engineers' duties.		2 SOILS ENGINEERS	* SPECIFICATION		
			WRITERS		
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: <u>12</u>					
*RPEs other than Civil must provide supporting documentation that qualifies them to supervise and perform this type of work.					
10. If submittal is by joint venture, list participating firms & outline specific areas of responsibility (including administrative, technical, & financial) for each firm. Each participating firm must complete a "Consultant Confidential Qualification Questionnaire". <b>THIS IS NOT A JOINT VENTURE SUBMITTAL.</b>					
10a. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					



12. \*\*\*Note: Personnel refers to those who will be working directly on the project:

A. Are your firm's personnel experienced in Solid Waste Landfill Closure Design?

**YES** **Description and Number of Projects:**

All the MSES staff members to be assigned to this project have been a project team for solid waste projects throughout West Virginia since 1984. The team to be assigned has experience in new landfill siting, planning, design, permitting, and management. Landfill closure experience consists of closure design planning, gas venting, leachate collection/conveyance/treatment, cap maintenance, and land area beneficial reuse. Most of the staff are SWANA-Certified Landfill Managers, Geosynthetic Accreditation Institute-Certified Clay and Geosynthetic Liner Professionals, Certified Monitoring Well Designers/Drillers, Registered Professional Engineers, and Professional Land Surveyors. The number of solid waste management landfill projects exceeds 78; the number of hazardous waste landfill designs and closures exceeds 20. For more detailed explanations and concise landfill project descriptions refer to the supplemental information provided by Item 19 of this questionnaire.

**NO**

B. Are your firm's personnel experienced in Solid Waste landfill site characterization assessment and evaluation?

**YES** **Description and Number of Projects:**

The Project Team to be assigned to this project has extensive experience in solid waste landfill site characterizations, assessments, and evaluations. This Team, as noted above, has worked together since 1984. Experience includes solid waste, C&D, and hazardous and non-hazardous landfill site characterizations, assessments, and evaluations. The Project Team to be assigned is experienced in ASTM Phase I, II, and III Environmental Site Assessments, as well as landfill gas investigations, surface water and groundwater assessments, and leachate collection/storage/treatment. The number of solid waste management landfill projects exceeds 78; the number of hazardous waste landfill designs and closures exceeds 20. For more detailed explanations and concise landfill project descriptions refer to the supplemental information provided by Item 19 of this questionnaire.

**NO**

C. Are your firm's personnel experienced in landfill closure construction inspection?

**YES** **Description and Number of Projects:**

The Project Team to be assigned to this landfill closure project has worked as a team since 1984. In addition to the various projects and experience outlined above, unique closure projects have involved the adapted reuse of short paper fibers (SPF) as a cap medium. MSES, in association with BFI (Allied Waste), developed SPF solid waste closure cap methods and techniques that are now accepted as both impermeable cap and growth layer media for abandoned landfills, coal waste areas (gob piles), flyash areas, etc. This technique is now being used in New Jersey, Pennsylvania, Virginia, Maryland, and West Virginia. In addition, MSES has been awarded a U. S. Department of Energy (USDOE) contract to study the capture and conditioning of landfill gas for use as fuel for boilers and generators. Also being studied is the feasibility of providing pipeline quality gas for

12. CONTINUED

interconnects with local gas distributors. MSES' Mr. Charles H. "Sam" Muncy, Jr., P.E., P.S., has been invited to present MSES' landfill gas capture projects and findings at various USDOE conferences. For more detailed explanations and project descriptions refer to the supplemental information provided by Item 19 of this questionnaire.

**NO**

D. Is your firm experienced in Aerial Photography and the Development of Contour Mapping?

**YES** **Description and Number of Projects:**

Many of MSES' landfill projects, whether siting a new landfill or developing closures for abandoned and/or active landfills, 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 36,600 acres. For more detailed explanations and concise project descriptions refer to the supplemental information provided by Item 19 of this questionnaire.

**NO**

E. Are your firm's personnel experienced in evaluating ground water contamination, such as may be associated with landfills?

**YES** **Description and Number of Projects:**

MSES personnel have been extensively involved in groundwater evaluations, contamination studies, and groundwater rehabilitation projects for numerous projects, including abandoned landfills, the siting of new landfills, and landfill closure projects. MSES has performed similar groundwater evaluation programs for hazardous waste sites and provided groundwater remediation programs to address problems associated with identified groundwater contamination. MSES' staff has been involved with the West Virginia oil and gas industry for land application of coalbed methane waters, groundwater assessments for Brownfields projects, and groundwater characterizations and remediation programs for numerous manufacturing clients throughout West Virginia and the mid-Atlantic states. Four of the MSES Project Team members to be assigned to this project are West Virginia Certified Groundwater Monitoring Well Designers/Drillers.

**NO**

F. Are your firm's personnel experienced in Landfill Closure cost estimating?

**YES** **Description and Number of Projects:**

The staff members to be assigned to this landfill closure project are intimately familiar with proper closure techniques that not only protect the environment and the safety, health, and well-being of the general public, but do so in a cost-effective manner. The MSES project staff is very cognizant of providing realistic costing for closure activities for various types of landfills and closure cap methods. MSES prides itself on providing accurate and realistic closure costs.

**NO**



13a. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR LANDFILL CLOSURE DESIGN (name type of design or work) (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF EXPERIENCE WITH MSEs:	YEARS OF EXPERIENCE WITH OTHER FIRMS:	YEARS OF LANDFILL EXPERIENCE:
Keeling, John J. PE, CIH, QEP, CSP, LRS Principal and Project Manager	20	15	20
Brief Explanation of Responsibilities:			
<u>Mr. Keeling will be the Project Manager for the Landfill Closure Project. He will be responsible to the WVDEP for schedules, quality of work, and budgets.</u>			
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)	

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## 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: 20      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 Pennsylvania  
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 and Ohio BOH  
Underground Storage Tank Closure Specialist/Installer - WVDEP  
Certified Monitoring Well Designer and Installer - WVDEP

### 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 - Vice Chairperson

### Past Work History

Union Carbide Corporation  
Kentucky Department of Transportation

### 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"/> Environmental/Architectural Support |
| <input type="checkbox"/> E-911 Systems                       | <input type="checkbox"/> GIS Systems                         |

13a. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR LANDFILL CLOSURE DESIGN (name type of design or work) (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF EXPERIENCE WITH MS&ES:	YEARS OF EXPERIENCE WITH OTHER FIRMS:	YEARS OF LANDFILL EXPERIENCE:
Muncy, Charles H. "Sam", Jr. BS, MS, PE, PS Senior Project Engineer	19	16	19
Brief Explanation of Responsibilities:			
<p><u>Mr. Muncy will be the Senior Project Engineer, and will be directly involved in all aspects of the Landfill Closure Project. He will be assigned full time to this project, and will be part of the Design Team, responsible for site characterizations, leachate collection, 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.</u></p>			
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)	

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## PROFESSIONAL VITAE

**Charles H. "Sam" Muncy, Jr., P.S., P.E.**  
Senior Project Engineer

**Years of Experience with MSES: 19      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

### Professional Organizations

American Society of Civil Engineers  
Solid Waste Association of North America  
Barbour County, WV Solid Waste Authority - 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"/> Land Planning                      | <input type="checkbox"/> Site Development                   |
| <input type="checkbox"/> Roadway/Highway                    | <input type="checkbox"/> Subsurface Investigation           |
| <input type="checkbox"/> Bioremediation                     | <input type="checkbox"/> NPDES Permitting                   |
| <input type="checkbox"/> Erosion & Sediment Planning        | <input type="checkbox"/> Stormwater                         |
| <input type="checkbox"/> Waste Management/Minimization      | <input type="checkbox"/> Civil/Architectural Support        |
| <input type="checkbox"/> Code Compliance                    | <input type="checkbox"/> Structural/Architectural Support   |

13a. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR LANDFILL CLOSURE DESIGN (name type of design or work) (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF EXPERIENCE WITH MSES:	YEARS OF EXPERIENCE WITH OTHER FIRMS:	YEARS OF LANDFILL EXPERIENCE:
Monahan, Catherine R. BS, MS Geologist/Hydrogeologist	16	3	16
Brief Explanation of Responsibilities:			
<p><u>Ms. Monahan will be responsible for the characterization of geological and hydrogeological conditions within the landfill disposal area and its immediately surrounding area. She will be part of the team that will be examining groundwater occurrence and quality, leachate movement, quality, and management, and impacts, if any, to groundwater, and will integrate her findings into the site characterization reports and planning for the closure of the landfill.</u></p>			
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 Catherine R. Monahan.			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	

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## **PROFESSIONAL VITAE**

**Catherine R. Monahan**  
Geologist/Hydrogeologist

**Years of Experience with MSES: 16      Years of Experience with Other Firms: 3**

### **Education**

B. S. Geology, Stockton State College, 1988  
M. S. Geology, University of Massachusetts at Amherst, 1991

### **Professional Registrations/Certifications**

Certified Monitoring Well Designer and Installer - WVDEP  
Wetland Identification - U. S. Army Corps of Engineers Training

### **Professional Organizations**

American Geophysical Union  
National Ground Water Association  
Association of Ground Water Scientists and Engineers

### **Past Work History**

University of Massachusetts at Amherst - Research Assistant

### **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                 | <input type="checkbox"/> Specification Development   |
| <input type="checkbox"/> Species Identification            | <input type="checkbox"/> Job Costing                 |
| <input type="checkbox"/> Property Evaluation               | <input type="checkbox"/> Site Surveys                |
| <input type="checkbox"/> Mapping                           | <input type="checkbox"/> Wetlands                    |
| <input type="checkbox"/> Economic Feasibility              | <input type="checkbox"/> Soils Engineering           |
| <input type="checkbox"/> Earth Sciences                    | <input type="checkbox"/> Site Development            |
| <input type="checkbox"/> Computer Programming              | <input type="checkbox"/> Brownfields Specialist      |
| <input type="checkbox"/> Stormwater Modeling               | <input type="checkbox"/> Evapotranspiration Modeling |
| <input type="checkbox"/> Groundwater Modeling/Monitoring   | <input type="checkbox"/> Subsurface Investigation    |
| <input type="checkbox"/> Bioremediation                    | <input type="checkbox"/> NPDES Permitting            |
| <input type="checkbox"/> Foundations                       | <input type="checkbox"/> Code Compliance             |

13a.PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR LANDFILL CLOSURE DESIGN (name type of design or work) (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF EXPERIENCE WITH MSSES:	YEARS OF EXPERIENCE WITH OTHER FIRMS:	YEARS OF LANDFILL EXPERIENCE:
Fisher, David W. BS, BS Senior Biologist/ Environmental Scientist	7	29	7
<p>Brief Explanation of Responsibilities:</p> <p><u>Mr. Fisher will be the Project Team member involved in the environmental and ecological reviews not only within the landfill area but also in potential wetlands and borrow areas. In addition, Mr. Fisher will assist in the characterization of surface water and vegetation conditions at the landfill. As a Team member, his information will be combined with the other members' findings to develop a Final Closure Plan.</u></p>			
<p>EDUCATION (Degree, Year, Specialization)</p> <p>To assist the reviewer of this questionnaire, a brief one-page professional vita is provided at the end of this page for David W. Fisher.</p>			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	

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## **PROFESSIONAL VITAE**

### **David W. Fisher**

Senior Biologist/Environmental Scientist

**Years of Experience with MSES: 7**

**Years of Experience with Other Firms: 29**

### **Education**

B. S., Biology & Psychology, Salem College, 1972

B. S. (Minor) Chemistry, Salem College, 1972

Masters Program Marshall University, 1977 to 1979

### **Professional Registrations/Certifications**

Permit Scientific Collection - WVDNR

Certified Hunter Safety Instructor - WVDNR

National Rifle Association - Master Gun Safety Instructor

### **Professional Organizations**

Member Board of Directors, West Virginia Rifle and Pistol Association

Chairman, Harrison County Solid Waste Site Committee

Harrison County United Way - Funding Committee

City of Salem - Councilperson

### **Past Work History**

Sturm Environmental Services - Director of Laboratory Services

WV Department of Natural Resources, Water Resources Division - Aquatic Biologist and Section Head, Aquatic Biology Section

### **Experience Summary**

- |  |   |
|--|---|
| <input type="checkbox"/> Aquatic Sampling/Identification | <input type="checkbox"/> Benthic - Sampling, Processing, Identification |
| <input type="checkbox"/> NPDES Permitting                | <input type="checkbox"/> Risk Assessment/Analysis                       |
| <input type="checkbox"/> Microbiological                 | <input type="checkbox"/> Regulatory Interaction                         |
| <input type="checkbox"/> Phase I/II Investigations       | <input type="checkbox"/> Database Systems                               |
| <input type="checkbox"/> Bioassays                       | <input type="checkbox"/> Data Processing                                |
| <input type="checkbox"/> Species/Habitat Identification  | <input type="checkbox"/> Computer Modeling                              |
| <input type="checkbox"/> Bioremediation                  | <input type="checkbox"/> Waste Impacts                                  |
| <input type="checkbox"/> Natural Sciences                | <input type="checkbox"/> Information/Aquatic Surveys                    |
| <input type="checkbox"/> Sampling/Laboratory Programs    | <input type="checkbox"/> QA/QC Programs                                 |
| <input type="checkbox"/> Brownfields                     | <input type="checkbox"/> Modeling                                       |
| <input type="checkbox"/> NACE Internal Corrosion         | <input type="checkbox"/> Mold and Fungi                                 |



**13a. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR LANDFILL CLOSURE DESIGN (name type of design or work) (Furnish complete data but keep to essentials)**

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF EXPERIENCE WITH MSES:	YEARS OF EXPERIENCE WITH OTHER FIRMS:	YEARS OF LANDFILL EXPERIENCE:
Lori Steele BS Meteorologist	17	12	17

Brief Explanation of Responsibilities:

Ms. Steele will be responsible for the characterization of air and fugitive dust emissions associated with the closure construction. She will also assist in the proper handling and air permitting needed for gas venting for the construction of the landfill closure and the post-closure air / gas venting 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 Lori Steele.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
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## **PROFESSIONAL VITAE**

**Lori Steele**  
Meteorologist

**Years of Experience with MSES: 17      Years of Experience with Other Firms: 12**

### **Education**

B. S., Meteorology, Pennsylvania State University, 1980

### **Professional Registrations/Certifications**

Certified Visible Emissions Observer - USEPA

### **Professional Organizations**

Air and Waste Management Association  
West Virginia Chapter of the Air and Waste Management Association  
American Meteorological Society

### **Past Work History**

CH2M Hill

### **Experience Summary**

- |   |   |
|---|---|
| <input type="checkbox"/> Job Costing                  | <input type="checkbox"/> Data Base Systems                  |
| <input type="checkbox"/> Risk Assessment/Analysis     | <input type="checkbox"/> Computer Modeling                  |
| <input type="checkbox"/> Regulatory Interaction       | <input type="checkbox"/> Air Emission Regulatory Compliance |
| <input type="checkbox"/> Economic Feasibility         | <input type="checkbox"/> Waste Management/Minimization      |
| <input type="checkbox"/> Phase I/II Investigation     | <input type="checkbox"/> Air Emission Modeling              |
| <input type="checkbox"/> RCRA Waste Units             | <input type="checkbox"/> Brownfields Specialist             |
| <input type="checkbox"/> Sampling/Laboratory Programs | <input type="checkbox"/> Health & Safety                    |
| <input type="checkbox"/> Air Permitting               | <input type="checkbox"/> Certified Emission Statement       |
| <input type="checkbox"/> Precipitation Modeling       | <input type="checkbox"/> Modeling/Storm Predicting          |

13a.PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES <b>RESPONSIBLE FOR LANDFILL CLOSURE DESIGN (name type of design or work)</b> (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF EXPERIENCE WITH MSSES:	YEARS OF EXPERIENCE WITH OTHER FIRMS:	YEARS OF LANDFILL EXPERIENCE:
Williams, Kevin L. BS Project Engineer	5	15	5
Brief Explanation of Responsibilities:			
<p><u>Mr. Williams' civil engineering background will be utilized, along with that of other Team members, to develop grading plans, stable slope designs, and the planning of the closure cap construction.</u></p>			
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 Kevin L. Williams.			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	

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## **PROFESSIONAL VITAE**

**Kevin L. Williams**  
Project Engineer

**Years of Experience with MSES: 5      Years of Experience with Other Firms: 15**

### **Education**

B. S., Civil Engineering, West Virginia Institute of Technology, 1986

### **Professional Registrations/Certifications**

Certified Landfill Manager – Solid Waste Association of North America

Licensed Contractor – State of West Virginia

Operator Qualification - USDOT

Geosynthetic Accreditation Institute - Clay & GeoSynthetic Liners

### **Professional Organizations**

West Virginia Society of Professional Engineers - T. Moore Jackson Chapter

West Virginia Institute of Technology (WVU Tech) - Chairman Alumni Committee

### **Past Work History**

West Virginia Department of Highways

Hope Gas, Inc.

Dominion Hope

### **Experience Summary**

- |   |   |
|---|---|
| <input type="checkbox"/> Construction Inspection/Management | <input type="checkbox"/> Pipeline Design/Construction     |
| <input type="checkbox"/> Project Management                 | <input type="checkbox"/> Regulatory Interaction           |
| <input type="checkbox"/> Sampling Programs                  | <input type="checkbox"/> Database Systems                 |
| <input type="checkbox"/> Job Costing                        | <input type="checkbox"/> Specification Development        |
| <input type="checkbox"/> QA/QC Inspection & Compliance      | <input type="checkbox"/> Property Evaluation              |
| <input type="checkbox"/> Soils Engineering                  | <input type="checkbox"/> Stormwater Routing               |
| <input type="checkbox"/> Flood Routing                      | <input type="checkbox"/> Foundations                      |
| <input type="checkbox"/> Geographic and Hydrologic Studies  | <input type="checkbox"/> Site Development                 |
| <input type="checkbox"/> Land Planning                      | <input type="checkbox"/> Hydrologic & Hydraulic Analysis  |
| <input type="checkbox"/> Municipal Engineering              | <input type="checkbox"/> Plumbing System Design           |
| <input type="checkbox"/> Site Utilities                     | <input type="checkbox"/> Roadway/Highway                  |
| <input type="checkbox"/> Subsurface Investigation           | <input type="checkbox"/> Water/Wastewater Systems         |
| <input type="checkbox"/> Stormwater Management              | <input type="checkbox"/> Erosion and Sediment Planning    |
| <input type="checkbox"/> Code Compliance                    | <input type="checkbox"/> Landfill Construction/Inspection |
| <input type="checkbox"/> Civil/Architectural Support        | <input type="checkbox"/> Building Inspection              |
| <input type="checkbox"/> USDOT Jurisdictional Pipelines     | <input type="checkbox"/> USDOT Class Determination        |
| <input type="checkbox"/> DOT O&M Manuals                    | <input type="checkbox"/> DOT Procedures Manuals           |

13a. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR LANDFILL CLOSURE DESIGN (name type of design or work) (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF EXPERIENCE WITH MSEs:	YEARS OF EXPERIENCE WITH OTHER FIRMS:	YEARS OF LANDFILL EXPERIENCE:
Kidd, Rodney D. BS Project Engineer	23	12	23
Brief Explanation of Responsibilities:			
<u>Mr. Kidd's civil engineering background in similar landfill closure projects will be utilized to develop access roads, stable slope designs, and leachate collection systems (piping, manholes, collection laterals, etc.).</u>			
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 Rodney D. Kidd.			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	

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## **PROFESSIONAL VITAE**

**Rodney D. Kidd**  
Project Engineer

**Years of Experience with MSES: 23      Years of Experience with Other Firms: 12**

### **Education**

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

### **Professional Registrations/Certifications**

Certified Compaction Technician - West Virginia Department of Highways  
Certified Concrete Technician - West Virginia Department of Highways

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### **Professional Organizations**

American Society of Testing Materials  
American Water Well Association  
National Ground Water Association  
Past Chairman - City of Bridgeport Planning and Zoning Commission

### **Past Work History**

Union Carbide Corporation

### **Experience Summary**

- |  |  |
|--|--|
| <input type="checkbox"/> Project Management                | <input type="checkbox"/> Regulatory Interaction          |
| <input type="checkbox"/> Sampling/Laboratory Programs      | <input type="checkbox"/> Data Base Systems               |
| <input type="checkbox"/> Life Safety Codes                 | <input type="checkbox"/> Specification Development       |
| <input type="checkbox"/> Job Costing                       | <input type="checkbox"/> Property Evaluation             |
| <input type="checkbox"/> QA/QC Inspection & Compliance     | <input type="checkbox"/> Economic Feasibility            |
| <input type="checkbox"/> Soils Engineering                 | <input type="checkbox"/> Earth Sciences                  |
| <input type="checkbox"/> Flood Routing                     | <input type="checkbox"/> Stormwater Routing              |
| <input type="checkbox"/> Geographic and Hydrologic Studies | <input type="checkbox"/> Foundations                     |
| <input type="checkbox"/> Land Planning                     | <input type="checkbox"/> Site Development                |
| <input type="checkbox"/> Municipal Engineering             | <input type="checkbox"/> Hydrologic & Hydraulic Analysis |
| <input type="checkbox"/> Site Utilities                    | <input type="checkbox"/> Plumbing System/Design          |
| <input type="checkbox"/> Firewater Systems                 | <input type="checkbox"/> Roadway/Highway                 |
| <input type="checkbox"/> Subsurface Investigation          | <input type="checkbox"/> Water/Wastewater Systems        |
| <input type="checkbox"/> Stormwater Management             | <input type="checkbox"/> Erosion and Sediment Planning   |
| <input type="checkbox"/> Code Compliance                   | <input type="checkbox"/> Civil/Architectural Support     |

13a. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR LANDFILL CLOSURE DESIGN (name type of design or work) (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF EXPERIENCE WITH MSSES:	YEARS OF EXPERIENCE WITH OTHER FIRMS:	YEARS OF LANDFILL EXPERIENCE:
Tennant, Rex B., II BS, BS Environmental Chemist/ Programmer	13	24	13
Brief Explanation of Responsibilities:  <u>Mr. Tennant's chemistry and laboratory analytical background will be utilized in developing prudent and decisive sampling programs for methane, soils, groundwater, leachate, and other media encountered within the landfill area. 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 closure cap and the leachate collection and treatment systems.</u>			
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)	

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## **PROFESSIONAL VITAE**

**Rex B. Tennant, II**

Environmental Chemist/Programmer

**Years of Experience with MSES: 13      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

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### **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    |



13a. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR LANDFILL CLOSURE DESIGN (name type of design or work) (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF EXPERIENCE WITH MSES:	YEARS OF EXPERIENCE WITH OTHER FIRMS:	YEARS OF LANDFILL EXPERIENCE:
Reinhart, Wayne C. BS Project Engineer	22	4	22
Brief Explanation of Responsibilities:			
<p><u>Mr. Reinhart's civil engineering background in clay, amended clay, and synthetic liner systems will be utilized in developing an impermeable closure cap that adequately meets both current and future requirements for landfill closure and functions.</u></p>			
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 Wayne C. Reinhart.			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	

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## **PROFESSIONAL VITAE**

**Wayne C. Reinhart**  
Project Engineer

**Years of Experience with MSES: 22**

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

### **Education**

B. S., Engineering, Fairmont State College, 1983

### **Professional Organizations**

Member Construction Specifications Institute  
National Fire Protection Association

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### **Past Work History**

Clark, Dietz, and Associates  
John C. Giese Engineers, Inc.  
Union Carbide Corporation

### **Experience Summary**

- |  |  |
|--|--|
| <input type="checkbox"/> Project Management              | <input type="checkbox"/> Regulatory Interaction          |
| <input type="checkbox"/> Sampling/Laboratory Programs    | <input type="checkbox"/> Data Base Systems               |
| <input type="checkbox"/> Life Safety Codes               | <input type="checkbox"/> Specification Development       |
| <input type="checkbox"/> Job Costing                     | <input type="checkbox"/> Property Evaluation             |
| <input type="checkbox"/> QA/QC Inspection and Compliance | <input type="checkbox"/> Economic Feasibility            |
| <input type="checkbox"/> Soils Engineering               | <input type="checkbox"/> Earth Sciences                  |
| <input type="checkbox"/> Land Planning                   | <input type="checkbox"/> Hydrologic & Hydraulic Analysis |
| <input type="checkbox"/> Flood Routing                   | <input type="checkbox"/> Site Development                |
| <input type="checkbox"/> Stormwater Management           | <input type="checkbox"/> Plumbing System/Design          |
| <input type="checkbox"/> Municipal Engineering           | <input type="checkbox"/> Roadway/Highway                 |
| <input type="checkbox"/> Site Utilities                  | <input type="checkbox"/> Water/Wastewater Systems        |
| <input type="checkbox"/> Firewater Systems               | <input type="checkbox"/> Geographic & Hydrologic Studies |
| <input type="checkbox"/> Subsurface Investigation        | <input type="checkbox"/> Erosion and Sediment Planning   |
| <input type="checkbox"/> Stormwater                      | <input type="checkbox"/> Civil/Architectural Support     |
| <input type="checkbox"/> Structural                      | <input type="checkbox"/> CAD/Intergraph/CAM              |
| <input type="checkbox"/> Code Compliance                 | <input type="checkbox"/> Foundations                     |
| <input type="checkbox"/> Computer Modeling               |  |

13a. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR LANDFILL CLOSURE DESIGN (name type of design or work) (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF EXPERIENCE WITH MSSES:	YEARS OF EXPERIENCE WITH OTHER FIRMS:	YEARS OF LANDFILL EXPERIENCE:
Casteel, Richard R. AS, AS, PS Survey Crew Leader	24	2	24
Brief Explanation of Responsibilities:			
<p><u>Mr. Casteel will be the lead surveyor assigned to this Landfill Closure Project. He will be in charge and, along with his crew members, will perform the on-site surveys for property boundary location and marking and site mapping, through the construction as-built surveys.</u></p>			
EDUCATION (Degree, Year, Specialization)			
<p>To assist the reviewer of this questionnaire, a brief one-page professional vita is provided at the end of this page for Richard R. Casteel.</p>			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	

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## **PROFESSIONAL VITAE**

**Richard R. Casteel, P. S.**  
Survey Crew Leader

**Years of Experience with MSES: 24      Years of Experience with Other Firms: 2**

### **Education**

A. S., Land Surveying, Glenville State College, 1983  
A. S., Forestry, Glenville State College, 1983

### **Professional Registrations/Certifications**

Professional Surveyor, West Virginia, Ohio, Kentucky, Pennsylvania  
Wetland Identification - U. S. Army Corps of Engineers Training  
Hazardous Waste Operator - OSHA  
Hazardous Waste Supervisor - OSHA

### **Professional Organizations**

West Virginia Association of Land Surveyors, Chapter Representative, Vice President,  
President, currently immediate Past President  
American Congress on Surveying and Mapping  
Member Ethics Board, West Virginia State Board of Land Surveyors

### **Past Work History**

Mountain State Surveying

### **Experience Summary**

- |   |  |
|---|--|
| <input type="checkbox"/> Project Management           | <input type="checkbox"/> Regulatory Interaction        |
| <input type="checkbox"/> Phase I and II Investigation | <input type="checkbox"/> Computer Modeling             |
| <input type="checkbox"/> Data Base Systems            | <input type="checkbox"/> Property Evaluation           |
| <input type="checkbox"/> Species Identification       | <input type="checkbox"/> Mapping                       |
| <input type="checkbox"/> Site Surveys                 | <input type="checkbox"/> QA/QC Inspection & Compliance |
| <input type="checkbox"/> Sampling and Data Collection | <input type="checkbox"/> Job Costing                   |
| <input type="checkbox"/> Wetlands                     | <input type="checkbox"/> Site Development              |
| <input type="checkbox"/> Project Support              | <input type="checkbox"/> Transportation                |
| <input type="checkbox"/> Recreation                   | <input type="checkbox"/> Flood Plain                   |
| <input type="checkbox"/> GPS Surveys                  | <input type="checkbox"/> GIS Surveys/Mapping           |
| <input type="checkbox"/> E-911 Surveys                | <input type="checkbox"/> Civil/Architectural Support   |

13a. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES <b>RESPONSIBLE FOR LANDFILL CLOSURE DESIGN</b> (name type of design or work) (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF EXPERIENCE WITH MSES:	YEARS OF EXPERIENCE WITH OTHER FIRMS:	YEARS OF LANDFILL EXPERIENCE:
Cottrill, Sharon R. BS Land Planner	29	4	29
<p><b>Brief Explanation of Responsibilities:</b></p> <p><u>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 Landfill Closure Project. She will serve as the QA/QC reviewer of all drafting documents.</u></p>			
<p><b>EDUCATION</b> (Degree, Year, Specialization)</p> <p>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.</p>			
<b>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</b>		<b>REGISTRATION</b> (Type, Year, State)	

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## ***PROFESSIONAL VITAE***

**Sharon Reeves Cottrill**  
Land Planner

**Years of Experience with MSES: 29      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                |

13a. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES <b>RESPONSIBLE FOR LANDFILL CLOSURE DESIGN</b> (name type of design or work) (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF EXPERIENCE WITH MSES:	YEARS OF EXPERIENCE WITH OTHER FIRMS:	YEARS OF LANDFILL EXPERIENCE:
Rine, Lawrence M. BS, BS Principal and Quality Assurance/Quality Control Manager	33	14	33
Brief Explanation of Responsibilities:  <u>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 landfill 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.</u>			
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)	

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## **PROFESSIONAL VITAE**

### **Lawrence M. Rine**

Principal and Quality Assurance/Quality Control Manager

**Years of Experience with MSES: 33      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     |



13a. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES <b>RESPONSIBLE FOR LANDFILL CLOSURE DESIGN</b> (name type of design or work) (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF EXPERIENCE WITH MSES:	YEARS OF EXPERIENCE WITH OTHER FIRMS:	YEARS OF LANDFILL EXPERIENCE:
Saas, Louis P., Jr. AS, BS Project Engineer	11	27	11
Brief Explanation of Responsibilities: <p style="margin-top: 10px;"><u>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 selected contractor is accomplishing the construction of the closure cap within the design parameters accepted by MSES and the WVDEP.</u></p>			
EDUCATION (Degree, Year, Specialization) <p style="margin-top: 10px;">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.</p>			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	

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## **PROFESSIONAL VITAE**

**Louis P. Saas, Jr.**  
Project Engineer

**Years of Experience with MSES: 11      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"/> Environmental/Architectural Support |

13a. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR LANDFILL CLOSURE DESIGN (name type of design or work) (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF EXPERIENCE WITH MSEs:	YEARS OF EXPERIENCE WITH OTHER FIRMS:	YEARS OF LANDFILL EXPERIENCE:
Wyont, Richard A. BA Senior Environmental Specialist	15	23	15
Brief Explanation of Responsibilities:			
<u>Mr. Wyont has an extensive background in construction monitoring and construction QA/QC. He will be part of the day-to-day on-site construction monitoring, to ensure compliance with the design drawings, standards, specifications, and conditions set forth in the landfill closure cap contract.</u>			
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 Richard A. Wyont.			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	

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## **PROFESSIONAL VITAE**

**Richard A. (Rick) Wyont**  
Senior Environmental Specialist

**Years of Experience with MSES: 15      Years of Experience with Other Firms: 23**

### **Education**

B. A. Business Administration, Morris Harvey College, 1966-1970  
Marshall University, 1964-1966 (No Degree)  
Haliburton Energy Institute

### **Professional Registrations/Certifications**

Certified Monitoring Well Designer and Installer - WVDEP  
Licensed Asbestos Inspector and Clearance Air Monitor - WV Bureau of Health  
Hazardous Waste Operator - OSHA  
Hazardous Waste Supervisor - OSHA  
H<sub>2</sub>S Certified  
First Responder First Aid with CPR

### **Past Work History**

CNG Producing Company  
Sonat Exploration  
Panhandle Eastern Pipeline Company  
Spartan Gas Company  
Ravenscliff Development Company

### **Experience Summary**

- |   |  |
|---|--|
| <input type="checkbox"/> Job Costing                              | <input type="checkbox"/> Property Evaluation                     |
| <input type="checkbox"/> Project Management                       | <input type="checkbox"/> Waste Management/Minimization           |
| <input type="checkbox"/> Natural Gas Pipeline Construction Safety | <input type="checkbox"/> Hazardous Waste Management              |
| <input type="checkbox"/> Natural Gas Well Construction Safety     | <input type="checkbox"/> Asbestos Assessment                     |
| <input type="checkbox"/> Regulatory Interaction                   | <input type="checkbox"/> Lead Base Paint Assessment              |
| <input type="checkbox"/> Economic Feasibility                     | <input type="checkbox"/> Health & Safety Plan Compliance         |
| <input type="checkbox"/> Phase I/II Investigation                 | <input type="checkbox"/> Specification Development               |
| <input type="checkbox"/> RCRA Waste Units Assessment              | <input type="checkbox"/> Noise Surveys                           |
| <input type="checkbox"/> Drilling Programs                        | <input type="checkbox"/> Sampling and Data Collection            |
| <input type="checkbox"/> Sampling/Laboratory Programs             | <input type="checkbox"/> QA/QC Inspection and Compliance         |
| <input type="checkbox"/> Code Compliance                          | <input type="checkbox"/> H <sub>2</sub> S Training Presentations |
| <input type="checkbox"/> Hydrostatic Testing of Pipelines         |  |

13a. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR LANDFILL CLOSURE DESIGN (name type of design or work) (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF EXPERIENCE WITH MSSES:	YEARS OF EXPERIENCE WITH OTHER FIRMS:	YEARS OF LANDFILL EXPERIENCE:
Barberio, Joseph BS Construction Engineer	4	34	4
Brief Explanation of Responsibilities:  <u>Mr. Barberio has many years of on-site construction inspection experience for many diversified earth-moving projects. He will be assigned as the hands-on "eyes" of the QA/QC Team, to assure that the contractor is working and performing within the guidelines set forth by the landfill closure cap construction design, plans, specifications, and contract.</u>			
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 Joseph Barberio.			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	

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## **PROFESSIONAL VITAE**

**Joseph Barberio**

Construction Engineer

**Years of Experience with MSES: 4      Years of Experience with Other Firms: 34**

**Years of Direct Natural Gas Industry Experience: 32**

### **Education**

B. S. Engineering Technology, Fairmont State, 1974  
Appalachian Underground Corrosion Short Course, WVU, Morgantown, WV  
Eastern Gas Compression Roundtable - WVU, Morgantown, WV  
International School of Construction Estimating - New Orleans, LA  
Fisher Valve Engineering Seminar - Marshalltown, IA  
ASME Pump & Valve Selection - Chicago, IL  
McAuto Pipeline Training Seminar - St. Louis, MO  
ASME Piping Design and Stress Analysis - Colorado School of Mines, Golden, CO  
FERC Natural Gas Pipeline Environmental Compliance Workshop, Chicago, IL  
West Virginia and EPA Approved Clearance Air Monitor Courses - 2007  
West Virginia and EPA Approved Asbestos Inspector Courses - 2005-2007  
Certified CQA Geosynthetic Materials and Compacted Clay Liner Inspection Course  
Tensar Earth Technologies, Inc. Ground Improvement Technologies Seminar

### **Past Work History**

Consolidated Gas Supply Corporation/CNG Transmission/Dominion Transmission

### **Experience Summary**

- |   |  |
|---|--|
| <input type="checkbox"/> Cathodic Protection Systems      | <input type="checkbox"/> GPS Surveys   |
| <input type="checkbox"/> Job Costing                      | <input type="checkbox"/> Compressor Station Construction                                 |
| <input type="checkbox"/> Project Management               | <input type="checkbox"/> Asbestos Assessments  |
| <input type="checkbox"/> Earth Sciences                   | <input type="checkbox"/> Phases I/II Investigations                                      |
| <input type="checkbox"/> Safety for Pipeline Installation | <input type="checkbox"/> Materials Handling  |
| <input type="checkbox"/> Trenching Safety                 | <input type="checkbox"/> Sampling/Laboratory Programs                                    |
| <input type="checkbox"/> Hydrostatic Testing of Pipeline  | <input type="checkbox"/> Safety Training (Pipeline Construction)                         |
| <input type="checkbox"/> Regulatory Interaction           | <input type="checkbox"/> Lockout/Tagout for Pipeline/<br>Compressor Station Construction |

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE THIS PROJECT (name project)
<b>CITY OF CLARKSBURG LANDFILL CLOSURE    REQUEST FOR QUOTATION DEP 14706</b>
EaglePoint 2009 Q3 Civil Design Software
Carlson Software Civil Design and SURVCADD 2009
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 2009 and 2010
ARCINFO 9.3
AUTOCAD MAY 3D 2010
ARCVIEW GIS 9.3
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

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD ASSOCIATED WITH OR RELATING TO LANDFILL CLOSURE OR CONSTRUCTION.				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Municipal Solid Waste Phase 7 New Disposal Cell Construction Meadowfill Landfill	Meadowfill Landfill, Inc. RR2 Box 68 Bridgeport, WV 26330	Design and Construction Certification	\$2,500,000	Design 50%
Municipal Solid Waste Phase 4B New Disposal Cell Construction S&S Landfill	S&S Grading, Inc. RR5 Box 559 Clarksburg, WV 26301	Design and Construction Certification	\$2,200,000	Design 50%
Major Permit Modification 75 Acre Expansion Meadowfill Landfill	Meadowfill Landfill, Inc. RR2 Box 68 Bridgeport, WV 26330	Design	\$125,000	Design 95%
Major Permit Modification 40 Acre Expansion S&S Landfill	S&S Grading, Inc. RR5 Box 559 Clarksburg, WV 26301	Design	\$75,000	Design 10%
Municipal Solid Waste Landfill Closure 14 Acre Cap Meadowfill Landfill	Meadowfill Landfill, Inc. RR2 Box 68 Bridgeport, WV 26330	Design and Construction Certification	\$3,200,000	Design and Construction 90%
New C&D Landfill Clarksburg, WV	City of Clarksburg 222 West Main Street Clarksburg, WV 26301	Design and Construction Certification	\$25,000	Design 95%
Jessie Run Refuse Area Cap Jane Lew, WV	Allied Waste, Inc. 2 12 <sup>th</sup> Street Fairmont, WV 26554	Design and Construction Certification	\$600,000	Design 95%
Hazardous Waste Cullet Pile On-site In-Situ Closure Williamstown, WV	Fenton Art Glass Company 700 Elizabeth Street Williamstown, WV 26187	Design, Construction, Permitting, Groundwater Characterization, 30 Years Monitoring	\$3,280,000	100% Complete (Groundwater Monitoring Ongoing)
Closure of Industrial Solid Waste and Sludge Landfill Wellsburg, WV	Banner Fibreboard Company 22nd and Commerce Street Wellsburg, WV 26070	Design, Construction, Permitting, and Groundwater Characterization	\$500,000	Design 100% Construction began, firm now in Ch. 7 bankruptcy.
TOTAL NUMBER OF PROJECTS:		TOTAL ESTIMATED CONSTRUCTION COSTS:		
# <u>9</u>		<u>\$ 12,505,000.00</u>		



16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS RELATING TO LANDFILL CLOSURE AND CONSTRUCTION.

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
<p><b>MSES Consultants, Inc. is the prime consultant for all of its landfill projects, and does not use sub-consultants. All services are from MSES' full-time in-house staff.</b></p>					

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD (List 5 to 7)				
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	Allied Waste, Inc. 2 12 <sup>th</sup> Street Fairmont, WV 26554	\$2,000,000	2007	YES
Martinlea Reclamation Coal Refuse Area Cap Fairmont, WV	Allied Waste, Inc. 2 12 <sup>th</sup> Street Fairmont, WV 26554	\$1,000,000	2004	YES
Municipal Solid Waste Phase 6A New Disposal Cell Construction Meadowfill Landfill	Meadowfill Landfill, Inc. RR2 Box 68 Bridgeport, WV 26330	\$2,500,000	2008	YES
Municipal Solid Waste Phase 5B New Disposal Area Meadowfill Landfill	Meadowfill Landfill, Inc. RR2 Box 68 Bridgeport, WV 26330	\$2,500,000	2006	YES
Municipal Solid Waste Phase 5B New Disposal Cell Construction Meadowfill Landfill	Meadowfill Landfill, Inc. RR2 Box 68 Bridgeport, WV 26330	\$2,500,000	2004	YES
Municipal Solid Waste Phase 4A New Disposal Cell Construction S&S Landfill	S&S Grading, Inc. RR5 Box 559 Clarksburg, WV 26301	\$2,000,000	2007	YES
Municipal Solid Waste Phase 3D New Disposal Cell Construction S&S Landfill	S&S Grading, Inc. RR5 Box 559 Clarksburg, WV 26301	\$2,000,000	2005	YES
Municipal Solid Waste Phase 3C New Disposal Cell Construction S&S Landfill	S&S Grading, Inc. RR5 Box 559 Clarksburg, WV 26301	\$2,000,000	2004	YES

18. COMPLETED WORK WITHIN LAST 5 YEARS IN WHICH YOUR FIRM HAS BEEN A SUBCONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK WHICH YOUR FIRM WAS RESPONSIBLE) LIST 5 TO 7.

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
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**MSES Consultants, Inc. is the prime consultant for all of its landfill projects, and does not use sub-consultants. 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 WV Department of Environmental Protection.

**To assist the reviewer of this Landfill Closure Consultant Qualification Questionnaire, MSES Consultants, Inc. (MSES) has prepared supplemental information regarding our corporate profile, capabilities, and personnel education, professional registrations, and project experience. This supplemental information is attached, and is made part of this questionnaire.**

20. The foregoing is a statement of facts

Signature: \_\_\_\_\_

Title: President

Printed

Name: Lawrence M. Rine

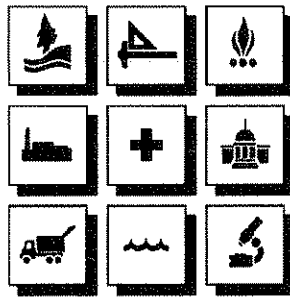
Date: August 12, 2009

# EXPRESSION OF INTEREST

REQUEST FOR QUOTATION – DEP14706

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
LANDFILL CLOSURE CONSULTANT QUALIFICATION QUESTIONNAIRE  
CITY OF CLARKSBURG LANDFILL CLOSURE PROJECT

## 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

# *1. Introduction*

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## **MSES CONSULTANTS, INC. - THE FIRM**

MSES Consultants, Inc. is a multi-disciplinary engineering, solid waste management, design, environmental, and project management firm, headquartered in Clarksburg, West Virginia. We have amassed 33 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 102, including 4 Registered Architects, 12 Registered Engineers, 2 Registered Structural Engineers, 2 Certified Industrial Hygienists, Fire Safety Specialist, Life Safety Specialist, ADA Compliance Specialist, 6 Professional Land Surveyors, and a diverse roster of professionals, scientists, biologist, geologist, hydrogeologists, technicians, and support personnel.

MSES Consultants, Inc. has completed more than 12,479 assignments to date. We have been heavily focused on the specific needs of the waste industry 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 proposed landfill sites, and landfill 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 of landfills, both solid and hazardous waste, 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 WASTE 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, and West Virginia University. These key employees contribute a wealth of knowledge and a breadth of experience that can often be difficult to match.

## *Introduction*

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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 solid waste industry.

### **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 site characterization study, leachate management, landfill closure cap design, and permitting for City of Clarksburg's closed MSW Landfill.

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.

## *Introduction*

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### **MSES CONSULTANTS AND CITY OF CLARKSBURG LANDFILL CLOSURE CAP DESIGN**

MSES believes we are a firm which offers a broad range of resources and expertise, whose close proximity to The City of Clarksburg's Landfill and our extensive knowledge of the City of Clarksburg's Landfill can be of particular value in accomplishing the Landfill's closure cap design goals and objectives. We are confident MSES will prove to be an extension of the Landfill's closure cap 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**

MSES Consultants, Inc. employs a professional staff of multi-educated, full-time professionals with experience in numerous disciplines. The MSES staff consists of:

Category	Number of Employees	Education		
		Associate Degrees	Bachelor Degrees	Advanced Degrees
Administrative	4	2	2	--
Chemical Engineer	1	--	1	1
Chemist	1	--	1	--
Civil Engineer	3	--	3	--
Structural Engineer	2	--	2	2
Resident Construction Engineer	2	1	1	--
CAD/Design Draftsman	2	--	2	--
CAD/Drafter	4	3	1	--
Environmental Geographer (GIS)	2	--	2	--
Ecologist	1	--	1	1
Meteorologist	1	--	1	--
Electrical Engineer	3	--	3	--
Geologist	1	--	1	--
Hydrologist	1	--	1	1
Architect	5	--	5	--
Landscape Architect	1	--	1	--
Environmental Engineer	2	--	2	1
Mechanical Engineer	2	--	2	--
Mining Engineer	2	--	2	1
Industrial Engineer	1	--	1	--
Sanitary Engineer	2	--	2	--
Soil Engineer	2	--	2	--
Transportation Engineer	1	--	1	--
Certified Industrial Hygienist	1	--	1	--
Certified Safety Professionals	2	--	2	--
Safety Engineer	1	--	1	1
Land and Right-Of-Way Agents	3	--	3	--
Paralegal	2	--	2	--
Surveyors	6	4	2	--
Economist	1	--	1	1
Forensic Biologist	1	--	1	--
Biologist	3	--	2	2
Botanist	1	--	1	1
Engineering Technicians	4	2	2	--
Survey Support	12	4	1	--

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.

# Introduction

## 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	6	Pending	3	Pending	0	2	3	3	
Architects	4	--	4	4	4	--	--	4	
<b>Engineers</b>									
Civil	3	1	2	1	3	0	3	3	
Electrical	3	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	
<b>Geologist</b>	--	--	--	--	1	--	--	--	
<b>Asbestos</b>									
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	
<b>Lead Risk Assessor</b>	1	--	--	--	--	--	--	--	
<b>Licensed Remediation Specialist</b>	1	2	--	--	--	--	--	4	
<b>Underground Storage Tank</b>									
Inspector	4	0	0	0	0	0	0	0	
Designer/Installer	2	0	0	0	0	0	0	0	
<b>Certified Monitor Well Designer/Driller</b>	4	--	2	0	--	--	0	--	
<b>Certified Safety Professional</b>	--	--	--	--	--	--	--	--	2
<b>Certified Industrial Hygienist</b>	--	--	--	--	--	--	--	--	2
<b>Certified Landfill Manager - SWANA</b>	--	--	--	--	--	--	--	--	4
<b>Geosynthetic Accreditation Institute</b>									
Clay & Geosynthetic Liners	--	--	--	--	--	--	--	--	6
<b>NACE Certified</b>									
Corrosion Technician	--	--	--	--	--	--	--	--	3
Sr. Corrosion Technologist	--	--	--	--	--	--	--	--	1
Internal Corrosion Technician	--	--	--	--	--	--	--	--	5

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.

## ***2. Qualifications and Technical Expertise***

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### **OVERALL CAPABILITIES**

MSES Consultants, Inc. is one of the largest West Virginia-owned and diversified consulting engineering, environmental, solid waste, and planning firms in the State. For over 33 years we have provided quality services to a wide range of public and private clients, with waste management (solid and hazardous waste) representing a significant portion of our past and present assignments.

Due to the many factors discussed previously, MSES is intimate with all aspects of landfill siting, closure, closure caps, feasibility studies, engineering design, and construction QA/QC, from site selection, subsurface investigations, hydrogeologic characterizations, environmental assessments, mapping and design to permitting disposal cell development, and closure planning, 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 24 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.).

Relevant support facilities/equipment and references are outlined below. MSES is especially proud of its 22,000-square foot office facility, located on West Main Street in Clarksburg, West Virginia. We moved into our three-story office building in February 1997, and have found that its custom design by our in-house staff has been tailored perfectly to suit our ever-expanding physical and technological needs. We encourage representatives from the West Virginia Department of Environmental Protection to visit our facility, and to contact the references listed below to solicit first hand comments on our services.

### **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.

## ***Qualifications and Technical Expertise***

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### **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 devices, for the monitoring of leachate collection systems' 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 an 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.

## ***Qualifications and Technical Expertise***

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### **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 33 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.

### **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. Andrew Kreider  
Region III Brownfields Project Manager  
215/814-3301

**West Virginia Department of Environmental Protection**  
Office of Water and Waste Management  
601 57<sup>th</sup> Street  
Charleston, WV 25304  
Mr. Randolph Sovic  
Technical Analyst, Sr.  
304/558-6350

**West Virginia Department of Environmental Protection**  
Office of Water and Waste Management  
601 57<sup>th</sup> Street  
Charleston, WV 25304  
Mr. Joseph M. Hickman  
Assistant Chief, Inspectors  
304/558-2505

## *Qualifications and Technical Expertise*

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**West Virginia Department of  
Environmental Protection**  
Office of Water and Waste Management  
Solid Waste Management Section  
601 57<sup>th</sup> 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  
Engineer  
304/368-3960

**West Virginia Department of  
Environmental Protection**  
Office of Water Resources  
2031 Pleasant Valley Road  
Fairmont, WV 26554  
Mr. Brad Swiger  
Enforcement Supervisor  
304/368-3960

**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

**West Virginia Department of  
Environmental Protection**  
Office of Water and Waste Management  
Solid Waste Management Section  
601 57<sup>th</sup> Street  
Charleston, WV 25304  
Mr. Richard L. Pino  
Environmental Resources  
Assistant to the Chief Inspectors  
304/926-1693

**West Virginia Department of  
Environmental Protection**  
Office of Water and Waste Management  
Solid Waste Management Section  
601 57<sup>th</sup> Street  
Charleston, WV 25304  
Ms. Leslia Oaks  
Engineer  
304/926-0499

**West Virginia Department of  
Environmental Protection**  
Office of Air Quality  
601 57<sup>th</sup> Street  
Charleston, WV 25304  
Ms. Lucy Pontiveros  
Assistant Chief, Hazardous and  
Solid Waste Management Unit  
304/926-0499

**Fayette County Community  
Resource Team**  
Fayette County Courthouse  
Fayetteville, WV 25840  
Mr. David Pollard  
Community Resource Coordinator  
304/574-4258

## *Qualifications and Technical Expertise*

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### **Solid Waste Management Board**

601 57<sup>th</sup> Street  
Charleston, WV 25304  
Mr. Richard Cooke  
Director  
304/9260499

### **Waste Management, Inc.**

1 Connie Street  
North York, Ontario, Canada MGL2H8  
Mr. John McGarvey  
Controller  
416/243-7000

### **Meadowfill Landfill, Inc.**

Route 2, Box 68  
Bridgeport, WV 26330  
Mr. Doug Hall  
District Manager  
304/842-2784

### **Cytec Industries, Inc.**

1 Heilman Avenue  
Belmont, WV 26134  
Mr. John Pitner  
Special Projects Engineer  
304/665-2422

### **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

### **City of Clarksburg**

222 West Main Street  
Clarksburg, WV 26301  
Mr. Frank Scarcelli  
Public Works Superintendent  
304/624-1612

### **Allied Waste, Inc.**

#2 12<sup>th</sup> Street  
Fairmont, WV 26554  
Mr. Ron Levine  
Special Waste Manager  
304/366-1580

### **Harrison County Solid Waste Authority**

301 West Main Street  
Clarksburg, WV 26301  
Mr. Richard Barnett  
Manager  
304/624-8500

### **Banner Fibreboard**

22<sup>nd</sup> and Commerce Streets  
Wellsburg, WV 26070-0390  
Mr. Dick Laughlin  
President  
304/737-3711

### **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

## *Qualifications and Technical Expertise*

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

**City of Clarksburg**  
Wastewater Treatment Plant  
222 West Main Street  
Clarksburg, WV 26301  
Mr. Bill Goodwin  
Plant Superintendent  
304/624-1626

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

**Robinson & McElwee**  
400 Fifth Third Center  
700 Virginia Street, East  
Charleston, WV 25301  
Mr. David Yaussy  
Senior Environmental Attorney  
304/347-8358

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

**Harrison County Commission**  
301 West Main Street  
Clarksburg, WV 26301  
Mr. Frank T. Angotti  
Commission President  
304/624-8500

**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

**Jackson & Kelly**  
1600 Laidley Tower  
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



### ***3. Management and Staffing Capabilities***

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#### **“TEAMING” WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION**

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 Department of Environmental Protection (WVDEP) and the City of Clarksburg. We accomplish this by:

- Involving the WVDEP and City of Clarksburg 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 WVDEP and City of Clarksburg and the closure cap design and permitting of City’s Municipal Solid Waste Landfill.

#### **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 thirty-five (35) 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 landfill closure project.

## ***Management and Staffing Capabilities***

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### **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), and a Geosynthetic Accreditation Institute, certified in both clay and geosynthetic liners, his thirty-five (35) years of experience, and his extensive involvement with the waste management industry are unparalleled on both a local and regional basis. Mr. Muncy's knowledge of landfill engineering design, permitting, and applicable requirements, as well as his rapport with agency personnel, would greatly facilitate the feasibility study and master planning for the landfill closure cap 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 WVDEP and City of Clarksburg 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 thirty-nine (39) years of experience. Mr. Rine's knowledge of landfill engineering and waste management afford him the unique background and expertise to serve as the QA/QC Principal for the City of Clarksburg's landfill closure cap design and permitting. Mr. Rine is Geosynthetic Accreditation Institute, certified in both clay and synthetic liners, Certified Monitoring Well Designer and Installer, and Waste Manager.

### **Key Personnel Listing**

The feasibility studies and master planning for the City of Clarksburg's MSW Landfill closure cap 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' 102-person 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
<b>Management Team</b>				
John J. Keeling, PE, CIH, CSP	Managing Principal	35	•	•
C. H. "Sam" Muncy, PS, PE	Senior Project Manager	35	•	•
<b>Feasibility Study and Master Planning</b>				
Catherine R. Monahan, MSGS	Geologist/Hydrogeologist	19	•	•
David W. Fisher	Biologist/Wetlands	36	•	•
Lori L. Steele, BS	Meteorologist/Air	29	•	•
Kevin L. Williams, BS	Civil/Environmental Engineer	20	•	•
Rodney D. Kidd, BSCE	Civil Engineer/Infrastructure	35	•	•
Rex B. Tennant, II, BSCE	Environmental Chemist	37	•	•
W. C. Reinhart, BSCE	Civil Engineer/Liner System	26	•	•
Richard R. Casteel, PS	Survey/Mapping	26	•	•
Sharon R. Cottrill, BSLA	Drafting Coordinator	33	•	•
<b>QA/QC</b>				
Lawrence M. Rine, BSME	Managing Principal	47	•	•
Louis P. Saas, BSEE	QA/QC Engineer	38	•	•
Richard A. Wyont, B.A.	Construction QA/QC	38	•	•
Joseph A. Barberio, B.S.	Construction Inspector	38	•	•

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*

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### 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 Engineer; **Mr. William L. Smith**, Environmental Engineer, is a member of the WVDEP Office of Air Quality Regulatory Reform Work Group/Rewrite Committee; **Mr. Hal George**, Corrosion Engineer, assumes a leading role with the Western Pennsylvania and West Virginia Corrosion Control Committees; **Ms. Catherine Monahan**, Hydrogeologist, is a member of the USEPA-solicited TMDL (Total Maximum Daily Loading) Steering Committees for the Tygart and Cheat River Watersheds; **Mr. Ron Cutlip**, Senior Safety/Environmental Specialist, serves as Vice President of the American Society of Safety Engineers; **Mr. Rick Casteel**, Surveyor, is the immediate Past President for the West Virginia Association of Land Surveyors; 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 waste management, landfills, and their costs. He also instructs compost facility operator certification training courses, and is a past member of the Barbour County Solid Waste Authority. 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.

## ***Management and Staffing Capabilities***

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### **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 33 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.

*MSES Consultants, Inc.*

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*Professional Vitae*

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## 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: 20      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 Pennsylvania  
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 and Ohio BOH  
Underground Storage Tank Closure Specialist/Installer - WVDEP  
Certified Monitoring Well Designer and Installer - WVDEP

### 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 - Vice Chairperson

### Past Work History

Union Carbide Corporation  
Kentucky Department of Transportation

### 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"/> Environmental/Architectural Support |
| <input type="checkbox"/> E-911 Systems                       | <input type="checkbox"/> GIS Systems                         |

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## PROFESSIONAL VITAE

**Charles H. "Sam" Muncy, Jr., P.S., P.E.**  
Senior Project Engineer

**Years of Experience with MSES: 19      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

### Professional Organizations

American Society of Civil Engineers  
Solid Waste Association of North America  
Barbour County, WV Solid Waste Authority - 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"/> Land Planning                      | <input type="checkbox"/> Site Development                   |
| <input type="checkbox"/> Roadway/Highway                    | <input type="checkbox"/> Subsurface Investigation           |
| <input type="checkbox"/> Bioremediation                     | <input type="checkbox"/> NPDES Permitting                   |
| <input type="checkbox"/> Erosion & Sediment Planning        | <input type="checkbox"/> Stormwater                         |
| <input type="checkbox"/> Waste Management/Minimization      | <input type="checkbox"/> Civil/Architectural Support        |
| <input type="checkbox"/> Code Compliance                    | <input type="checkbox"/> Structural/Architectural Support   |



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## **PROFESSIONAL VITAE**

**Catherine R. Monahan**  
Geologist/Hydrogeologist

**Years of Experience with MSES: 16      Years of Experience with Other Firms: 3**

### **Education**

B. S. Geology, Stockton State College, 1988  
M. S. Geology, University of Massachusetts at Amherst, 1991

### **Professional Registrations/Certifications**

Certified Monitoring Well Designer and Installer - WVDEP  
Wetland Identification - U. S. Army Corps of Engineers Training

### **Professional Organizations**

American Geophysical Union  
National Ground Water Association  
Association of Ground Water Scientists and Engineers

### **Past Work History**

University of Massachusetts at Amherst - Research Assistant

### **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                 | <input type="checkbox"/> Specification Development   |
| <input type="checkbox"/> Species Identification            | <input type="checkbox"/> Job Costing                 |
| <input type="checkbox"/> Property Evaluation               | <input type="checkbox"/> Site Surveys                |
| <input type="checkbox"/> Mapping                           | <input type="checkbox"/> Wetlands                    |
| <input type="checkbox"/> Economic Feasibility              | <input type="checkbox"/> Soils Engineering           |
| <input type="checkbox"/> Earth Sciences                    | <input type="checkbox"/> Site Development            |
| <input type="checkbox"/> Computer Programming              | <input type="checkbox"/> Brownfields Specialist      |
| <input type="checkbox"/> Stormwater Modeling               | <input type="checkbox"/> Evapotranspiration Modeling |
| <input type="checkbox"/> Groundwater Modeling/Monitoring   | <input type="checkbox"/> Subsurface Investigation    |
| <input type="checkbox"/> Bioremediation                    | <input type="checkbox"/> NPDES Permitting            |
| <input type="checkbox"/> Foundations                       | <input type="checkbox"/> Code Compliance             |

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## **PROFESSIONAL VITAE**

### **David W. Fisher**

Senior Biologist/Environmental Scientist

**Years of Experience with MSES: 7**

**Years of Experience with Other Firms: 29**

### **Education**

B. S., Biology & Psychology, Salem College, 1972

B. S. (Minor) Chemistry, Salem College, 1972

Masters Program Marshall University, 1977 to 1979

### **Professional Registrations/Certifications**

Permit Scientific Collection - WVDNR

Certified Hunter Safety Instructor - WVDNR

National Rifle Association - Master Gun Safety Instructor

### **Professional Organizations**

Member Board of Directors, West Virginia Rifle and Pistol Association

Chairman, Harrison County Solid Waste Site Committee

Harrison County United Way - Funding Committee

City of Salem - Councilperson

### **Past Work History**

Sturm Environmental Services - Director of Laboratory Services

WV Department of Natural Resources, Water Resources Division - Aquatic Biologist and Section Head, Aquatic Biology Section

### **Experience Summary**

- |  |   |
|--|---|
| <input type="checkbox"/> Aquatic Sampling/Identification | <input type="checkbox"/> Benthic - Sampling, Processing, Identification |
| <input type="checkbox"/> NPDES Permitting                | <input type="checkbox"/> Risk Assessment/Analysis                       |
| <input type="checkbox"/> Microbiological                 | <input type="checkbox"/> Regulatory Interaction                         |
| <input type="checkbox"/> Phase I/II Investigations       | <input type="checkbox"/> Database Systems                               |
| <input type="checkbox"/> Bioassays                       | <input type="checkbox"/> Data Processing                                |
| <input type="checkbox"/> Species/Habitat Identification  | <input type="checkbox"/> Computer Modeling                              |
| <input type="checkbox"/> Bioremediation                  | <input type="checkbox"/> Waste Impacts                                  |
| <input type="checkbox"/> Natural Sciences                | <input type="checkbox"/> Information/Aquatic Surveys                    |
| <input type="checkbox"/> Sampling/Laboratory Programs    | <input type="checkbox"/> QA/QC Programs                                 |
| <input type="checkbox"/> Brownfields                     | <input type="checkbox"/> Modeling                                       |
| <input type="checkbox"/> NACE Internal Corrosion         | <input type="checkbox"/> Mold and Fungi                                 |

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## **PROFESSIONAL VITAE**

**Lori Steele**  
Meteorologist

**Years of Experience with MSES:** 17      **Years of Experience with Other Firms:** 12

### **Education**

B. S., Meteorology, Pennsylvania State University, 1980

### **Professional Registrations/Certifications**

Certified Visible Emissions Observer - USEPA

### **Professional Organizations**

Air and Waste Management Association  
West Virginia Chapter of the Air and Waste Management Association  
American Meteorological Society

### **Past Work History**

CH2M Hill

### **Experience Summary**

- |   |   |
|---|---|
| <input type="checkbox"/> Job Costing                  | <input type="checkbox"/> Data Base Systems                  |
| <input type="checkbox"/> Risk Assessment/Analysis     | <input type="checkbox"/> Computer Modeling                  |
| <input type="checkbox"/> Regulatory Interaction       | <input type="checkbox"/> Air Emission Regulatory Compliance |
| <input type="checkbox"/> Economic Feasibility         | <input type="checkbox"/> Waste Management/Minimization      |
| <input type="checkbox"/> Phase I/II Investigation     | <input type="checkbox"/> Air Emission Modeling              |
| <input type="checkbox"/> RCRA Waste Units             | <input type="checkbox"/> Brownfields Specialist             |
| <input type="checkbox"/> Sampling/Laboratory Programs | <input type="checkbox"/> Health & Safety                    |
| <input type="checkbox"/> Air Permitting               | <input type="checkbox"/> Certified Emission Statement       |
| <input type="checkbox"/> Precipitation Modeling       | <input type="checkbox"/> Modeling/Storm Predicting          |

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## **PROFESSIONAL VITAE**

**Kevin L. Williams**  
Project Engineer

**Years of Experience with MSES: 5      Years of Experience with Other Firms: 15**

### **Education**

B. S., Civil Engineering, West Virginia Institute of Technology, 1986

### **Professional Registrations/Certifications**

Certified Landfill Manager – Solid Waste Association of North America

Licensed Contractor – State of West Virginia

Operator Qualification - USDOT

Geosynthetic Accreditation Institute - Clay & GeoSynthetic Liners

### **Professional Organizations**

West Virginia Society of Professional Engineers - T. Moore Jackson Chapter

West Virginia Institute of Technology (WVU Tech) - Chairman Alumni Committee

### **Past Work History**

West Virginia Department of Highways

Hope Gas, Inc.

Dominion Hope

### **Experience Summary**

- |   |   |
|---|---|
| <input type="checkbox"/> Construction Inspection/Management | <input type="checkbox"/> Pipeline Design/Construction     |
| <input type="checkbox"/> Project Management                 | <input type="checkbox"/> Regulatory Interaction           |
| <input type="checkbox"/> Sampling Programs                  | <input type="checkbox"/> Database Systems                 |
| <input type="checkbox"/> Job Costing                        | <input type="checkbox"/> Specification Development        |
| <input type="checkbox"/> QA/QC Inspection & Compliance      | <input type="checkbox"/> Property Evaluation              |
| <input type="checkbox"/> Soils Engineering                  | <input type="checkbox"/> Stormwater Routing               |
| <input type="checkbox"/> Flood Routing                      | <input type="checkbox"/> Foundations                      |
| <input type="checkbox"/> Geographic and Hydrologic Studies  | <input type="checkbox"/> Site Development                 |
| <input type="checkbox"/> Land Planning                      | <input type="checkbox"/> Hydrologic & Hydraulic Analysis  |
| <input type="checkbox"/> Municipal Engineering              | <input type="checkbox"/> Plumbing System Design           |
| <input type="checkbox"/> Site Utilities                     | <input type="checkbox"/> Roadway/Highway                  |
| <input type="checkbox"/> Subsurface Investigation           | <input type="checkbox"/> Water/Wastewater Systems         |
| <input type="checkbox"/> Stormwater Management              | <input type="checkbox"/> Erosion and Sediment Planning    |
| <input type="checkbox"/> Code Compliance                    | <input type="checkbox"/> Landfill Construction/Inspection |
| <input type="checkbox"/> Civil/Architectural Support        | <input type="checkbox"/> Building Inspection              |
| <input type="checkbox"/> USDOT Jurisdictional Pipelines     | <input type="checkbox"/> USDOT Class Determination        |
| <input type="checkbox"/> DOT O&M Manuals                    | <input type="checkbox"/> DOT Procedures Manuals           |

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## **PROFESSIONAL VITAE**

**Rodney D. Kidd**

Project Engineer

**Years of Experience with MSES: 23      Years of Experience with Other Firms: 12**

### **Education**

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

### **Professional Registrations/Certifications**

Certified Compaction Technician - West Virginia Department of Highways

Certified Concrete Technician - West Virginia Department of Highways

### **Professional Organizations**

American Society of Testing Materials

American Water Well Association

National Ground Water Association

Past Chairman - City of Bridgeport Planning and Zoning Commission

### **Past Work History**

Union Carbide Corporation

### **Experience Summary**

- |  |  |
|--|--|
| <input type="checkbox"/> Project Management                | <input type="checkbox"/> Regulatory Interaction          |
| <input type="checkbox"/> Sampling/Laboratory Programs      | <input type="checkbox"/> Data Base Systems               |
| <input type="checkbox"/> Life Safety Codes                 | <input type="checkbox"/> Specification Development       |
| <input type="checkbox"/> Job Costing                       | <input type="checkbox"/> Property Evaluation             |
| <input type="checkbox"/> QA/QC Inspection & Compliance     | <input type="checkbox"/> Economic Feasibility            |
| <input type="checkbox"/> Soils Engineering                 | <input type="checkbox"/> Earth Sciences                  |
| <input type="checkbox"/> Flood Routing                     | <input type="checkbox"/> Stormwater Routing              |
| <input type="checkbox"/> Geographic and Hydrologic Studies | <input type="checkbox"/> Foundations                     |
| <input type="checkbox"/> Land Planning                     | <input type="checkbox"/> Site Development                |
| <input type="checkbox"/> Municipal Engineering             | <input type="checkbox"/> Hydrologic & Hydraulic Analysis |
| <input type="checkbox"/> Site Utilities                    | <input type="checkbox"/> Plumbing System/Design          |
| <input type="checkbox"/> Firewater Systems                 | <input type="checkbox"/> Roadway/Highway                 |
| <input type="checkbox"/> Subsurface Investigation          | <input type="checkbox"/> Water/Wastewater Systems        |
| <input type="checkbox"/> Stormwater Management             | <input type="checkbox"/> Erosion and Sediment Planning   |
| <input type="checkbox"/> Code Compliance                   | <input type="checkbox"/> Civil/Architectural Support     |

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## *PROFESSIONAL VITAE*

### **Rex B. Tennant, II**

Environmental Chemist/Programmer

**Years of Experience with MSES:** 13      **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    |

**Wayne C. Reinhart**  
Project Engineer

**Years of Experience with MSES: 22**      **Years of Experience with Other Firms: 4**

**Education**

B. S., Engineering, Fairmont State College, 1983

**Professional Organizations**

Member Construction Specifications Institute  
National Fire Protection Association

**Past Work History**

Clark, Dietz, and Associates  
John C. Giese Engineers, Inc.  
Union Carbide Corporation

**Experience Summary**

- |  |  |
|--|--|
| <input type="checkbox"/> Project Management              | <input type="checkbox"/> Regulatory Interaction          |
| <input type="checkbox"/> Sampling/Laboratory Programs    | <input type="checkbox"/> Data Base Systems               |
| <input type="checkbox"/> Life Safety Codes               | <input type="checkbox"/> Specification Development       |
| <input type="checkbox"/> Job Costing                     | <input type="checkbox"/> Property Evaluation             |
| <input type="checkbox"/> QA/QC Inspection and Compliance | <input type="checkbox"/> Economic Feasibility            |
| <input type="checkbox"/> Soils Engineering               | <input type="checkbox"/> Earth Sciences                  |
| <input type="checkbox"/> Land Planning                   | <input type="checkbox"/> Hydrologic & Hydraulic Analysis |
| <input type="checkbox"/> Flood Routing                   | <input type="checkbox"/> Site Development                |
| <input type="checkbox"/> Stormwater Management           | <input type="checkbox"/> Plumbing System/Design          |
| <input type="checkbox"/> Municipal Engineering           | <input type="checkbox"/> Roadway/Highway                 |
| <input type="checkbox"/> Site Utilities                  | <input type="checkbox"/> Water/Wastewater Systems        |
| <input type="checkbox"/> Firewater Systems               | <input type="checkbox"/> Geographic & Hydrologic Studies |
| <input type="checkbox"/> Subsurface Investigation        | <input type="checkbox"/> Erosion and Sediment Planning   |
| <input type="checkbox"/> Stormwater                      | <input type="checkbox"/> Civil/Architectural Support     |
| <input type="checkbox"/> Structural                      | <input type="checkbox"/> CAD/Intergraph/CAM              |
| <input type="checkbox"/> Code Compliance                 | <input type="checkbox"/> Foundations                     |
| <input type="checkbox"/> Computer Modeling               |  |

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## **PROFESSIONAL VITAE**

**Richard R. Casteel, P. S.**  
Survey Crew Leader

**Years of Experience with MSES: 24      Years of Experience with Other Firms: 2**

### **Education**

A. S., Land Surveying, Glenville State College, 1983  
A. S., Forestry, Glenville State College, 1983

### **Professional Registrations/Certifications**

Professional Surveyor, West Virginia, Ohio, Kentucky, Pennsylvania  
Wetland Identification - U. S. Army Corps of Engineers Training  
Hazardous Waste Operator - OSHA  
Hazardous Waste Supervisor - OSHA

### **Professional Organizations**

West Virginia Association of Land Surveyors, Chapter Representative, Vice President,  
President, currently immediate Past President  
American Congress on Surveying and Mapping  
Member Ethics Board, West Virginia State Board of Land Surveyors

### **Past Work History**

Mountain State Surveying

### **Experience Summary**

- |   |  |
|---|--|
| <input type="checkbox"/> Project Management           | <input type="checkbox"/> Regulatory Interaction        |
| <input type="checkbox"/> Phase I and II Investigation | <input type="checkbox"/> Computer Modeling             |
| <input type="checkbox"/> Data Base Systems            | <input type="checkbox"/> Property Evaluation           |
| <input type="checkbox"/> Species Identification       | <input type="checkbox"/> Mapping                       |
| <input type="checkbox"/> Site Surveys                 | <input type="checkbox"/> QA/QC Inspection & Compliance |
| <input type="checkbox"/> Sampling and Data Collection | <input type="checkbox"/> Job Costing                   |
| <input type="checkbox"/> Wetlands                     | <input type="checkbox"/> Site Development              |
| <input type="checkbox"/> Project Support              | <input type="checkbox"/> Transportation                |
| <input type="checkbox"/> Recreation                   | <input type="checkbox"/> Flood Plain                   |
| <input type="checkbox"/> GPS Surveys                  | <input type="checkbox"/> GIS Surveys/Mapping           |
| <input type="checkbox"/> E-911 Surveys                | <input type="checkbox"/> Civil/Architectural Support   |



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## ***PROFESSIONAL VITAE***

**Sharon Reeves Cottrill**

Land Planner

**Years of Experience with MSES: 29      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                |

**Lawrence M. Rine**

Principal and Quality Assurance/Quality Control Manager

**Years of Experience with MSES: 33      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     |

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## **PROFESSIONAL VITAE**

**Louis P. Saas, Jr.**  
Project Engineer

**Years of Experience with MSES: 11      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"/> Environmental/Architectural Support |

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## **PROFESSIONAL VITAE**

### **Richard A. (Rick) Wyont**

Senior Environmental Specialist

**Years of Experience with MSES:** 15      **Years of Experience with Other Firms:** 23

### **Education**

B. A. Business Administration, Morris Harvey College, 1966-1970  
Marshall University, 1964-1966 (No Degree)  
Haliburton Energy Institute

### **Professional Registrations/Certifications**

Certified Monitoring Well Designer and Installer - WVDEP  
Licensed Asbestos Inspector and Clearance Air Monitor - WV Bureau of Health  
Hazardous Waste Operator - OSHA  
Hazardous Waste Supervisor - OSHA  
H<sub>2</sub>S Certified  
First Responder First Aid with CPR

### **Past Work History**

CNG Producing Company  
Sonat Exploration  
Panhandle Eastern Pipeline Company  
Spartan Gas Company  
Ravenscliff Development Company

### **Experience Summary**

- |   |  |
|---|--|
| <input type="checkbox"/> Job Costing                              | <input type="checkbox"/> Property Evaluation                     |
| <input type="checkbox"/> Project Management                       | <input type="checkbox"/> Waste Management/Minimization           |
| <input type="checkbox"/> Natural Gas Pipeline Construction Safety | <input type="checkbox"/> Hazardous Waste Management              |
| <input type="checkbox"/> Natural Gas Well Construction Safety     | <input type="checkbox"/> Asbestos Assessment                     |
| <input type="checkbox"/> Regulatory Interaction                   | <input type="checkbox"/> Lead Base Paint Assessment              |
| <input type="checkbox"/> Economic Feasibility                     | <input type="checkbox"/> Health & Safety Plan Compliance         |
| <input type="checkbox"/> Phase I/II Investigation                 | <input type="checkbox"/> Specification Development               |
| <input type="checkbox"/> RCRA Waste Units Assessment              | <input type="checkbox"/> Noise Surveys                           |
| <input type="checkbox"/> Drilling Programs                        | <input type="checkbox"/> Sampling and Data Collection            |
| <input type="checkbox"/> Sampling/Laboratory Programs             | <input type="checkbox"/> QA/QC Inspection and Compliance         |
| <input type="checkbox"/> Code Compliance                          | <input type="checkbox"/> H <sub>2</sub> S Training Presentations |
| <input type="checkbox"/> Hydrostatic Testing of Pipelines         |  |

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## **PROFESSIONAL VITAE**

### **Joseph Barberio**

Construction Engineer

**Years of Experience with MSES:** 4      **Years of Experience with Other Firms:** 34

**Years of Direct Natural Gas Industry Experience:** 32

### **Education**

B. S. Engineering Technology, Fairmont State, 1974  
Appalachian Underground Corrosion Short Course, WVU, Morgantown, WV  
Eastern Gas Compression Roundtable - WVU, Morgantown, WV  
International School of Construction Estimating - New Orleans, LA  
Fisher Valve Engineering Seminar - Marshalltown, IA  
ASME Pump & Valve Selection - Chicago, IL  
McAuto Pipeline Training Seminar - St. Louis, MO  
ASME Piping Design and Stress Analysis - Colorado School of Mines, Golden, CO  
FERC Natural Gas Pipeline Environmental Compliance Workshop, Chicago, IL  
West Virginia and EPA Approved Clearance Air Monitor Courses - 2007  
West Virginia and EPA Approved Asbestos Inspector Courses - 2005-2007  
Certified CQA Geosynthetic Materials and Compacted Clay Liner Inspection Course  
Tensar Earth Technologies, Inc. Ground Improvement Technologies Seminar

### **Past Work History**

Consolidated Gas Supply Corporation/CNG Transmission/Dominion Transmission

### **Experience Summary**

- |   |  |
|---|--|
| <input type="checkbox"/> Cathodic Protection Systems      | <input type="checkbox"/> GPS Surveys   |
| <input type="checkbox"/> Job Costing                      | <input type="checkbox"/> Compressor Station Construction                                 |
| <input type="checkbox"/> Project Management               | <input type="checkbox"/> Asbestos Assessments  |
| <input type="checkbox"/> Earth Sciences                   | <input type="checkbox"/> Phases I/II Investigations                                      |
| <input type="checkbox"/> Safety for Pipeline Installation | <input type="checkbox"/> Materials Handling  |
| <input type="checkbox"/> Trenching Safety                 | <input type="checkbox"/> Sampling/Laboratory Programs                                    |
| <input type="checkbox"/> Hydrostatic Testing of Pipeline  | <input type="checkbox"/> Safety Training (Pipeline Construction)                         |
| <input type="checkbox"/> Regulatory Interaction           | <input type="checkbox"/> Lockout/Tagout for Pipeline/<br>Compressor Station Construction |

## 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 twenty-five (25) 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 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	KYPIPES	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

## *Support Services*

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
MASTERSPEC MECHANICAL/ ELECTRICAL	MASTERSPEC OUTLINE ARCHITECTURAL/ STRUCTURAL/CIVIL	WINZIP	MICROSOFT STREETS 98	WEATHER 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 9.3, and ArcView GIS 9.3, 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. Each crew is equipped with Leica 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 Magellan Mobil Mapper CX for each of the six MSES survey crews and two of the Magellan 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***

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The MSES Project Team currently provides a wealth of services to many public and private landfills and solid 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:

- Solid Waste**
  - New Facility Siting
  - Regulatory Interaction
  - Hydrogeologic Evaluations
  - Part I Permitting
  - Part II Design and Permitting
  - Closure
  - Liner Systems
  - Gas Venting
  - Recycling
  - Composting Systems
  - Special Waste Handling Systems
  - Incineration
  - Design, Construction Documents, Construction Management, and QA/QC
  
- Hazardous 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*

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- Stormwater and Sediment Control**
  - Pre- and Post-Construction Management
  - Design
  - Permitting
  - Construction Documents, Construction Management, and QA/QC
  - NPDES Sampling, Analysis and Compliance
  
- Leachate**
  - 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
  
- Water Resources**
  - Surface and Groundwater Hydrology
  - Water Pollution
  - Water Resource Impact Evaluation
  - Wetlands Identification
  - Perennial Stream Evaluations

## *Related Prior Experience*

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- ❑ **Document Preparation**
  - Landfill (Part I/Part II/Closure/Modifications - Minor and Major)
  - State and Federal Discharge Applications
  - Public Service Commission (Siting Analysis/Demonstration of Need/  
Economic Analysis)
  - Associated Documents/Plans Required in Support of Permitted Activities

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.

## *Related Prior Experience*

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- ❑ **USDA Natural Resources Conservation Service** - MSES is currently in the third 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 October 1998, 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

## *Related Prior Experience*

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 solid waste industry, MSES has prepared a summary of our related prior experience, highlighted by the following table. Since the City of Clarksburg Landfill 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.

Some of the listings provided are for 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 landfills' planned expansions.

PROJECT NAME	CLIENT	LOCATION	DESCRIPTION
Fayette County Landfill Closure	Fayette County Solid Waste Authority	Fayetteville, WV	Expansion feasibility investigation (33 CSR 40); closure, with documentation for LCAP Program; hydrogeologic investigations and impacts on New River; experimental daily cover systems; leachate evaluation, characterization, collection and treatment.
Fayette County Solid Waste Facilities Siting Plan	Fayette County Solid Waste Authority Fayette County Commission	Fayette County, WV	Developed County-wide solid waste facilities siting plan; public involvement; County approvals; WV Solid Waste Management Board approval
Fayette County Recycling Plan	Fayette County Solid Waste Authority	Fayette County, WV	Prepared County-wide solid waste recycling plan; hauler involvement; public input; WV Solid Waste Management Board approval
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	City of Clarksburg	Clarksburg, WV	Landfill closure; application for LCAP Program; hydrogeologic investigation; monitoring well installation; quarterly sampling/analysis

## *Related Prior Experience*

PROJECT NAME	CLIENT	LOCATION	DESCRIPTION
Yard Waste Composting Facility	City of Clarksburg	Clarksburg, WV	Siting; planning, design, specifications; Certificate of Need; equipment specifications and selection; permitting; funding applications; facility expansions; stormwater and leachate collection; NPDES permitting; technical advisor to operations personnel
Randolph-Elkins Landfill	City of Elkins	Elkins, WV	Modifications to existing Part I and Part II landfill permit; construction documents; construction management; QA/QC activities; leachate management, from both new and closed MSW landfill areas; annual reporting; existing landfill closure planning
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.
Northwestern Landfill	Waste Management, Inc.	Parkersburg, WV	Compilation of Part I application information for two (2) permit expansion areas, including detailed mapping; geologic mapping; hydrogeologic investigations; perennial stream and wetlands determinations; compliance issues; and regulatory interaction.
Mingo County Landfill	Mingo County Solid Waste Authority/ Mingo County Redevelopment Authority	Williamson, WV	Siting; Part I and Part II development; Certificate of Need, technical assistance, public meetings; recycling center as part of landfill development; technical assistance to County Waste Authority
Meadowfill Landfill	Waste Management, Inc.	Bridgeport, WV	GPP, SPCC Plan, Subtitle D Operating Record, Title V air permit application, annual landfill gas certified emissions statements, gas venting program in new MSW area, and annual reporting since 1992
Meadowfill Landfill	Waste Management, Inc.	Bridgeport, WV	Geological investigations, consisting of test pitting, reviews of existing subsurface information, and surficial geologic mapping for borrow and construction materials.
Northwestern Landfill	Waste Management, Inc.	Parkersburg, WV	Preparation of 1997 - Present construction budgets; Title V air permit; evaluation and preliminary design for pumping of leachate to Parkersburg Sanitation Board; 1998 site aerial photography

## *Related Prior Experience*

PROJECT NAME	CLIENT	LOCATION	DESCRIPTION
Meadowfill Landfill	Waste Management, Inc.	Bridgeport, WV	Landfill's Engineer-of- Record since 1988, beginning with initial siting and planning of new MSW area and separate C&D area; hydrogeologic investigations; Part I and Part II completion and submittals; Certificate of Need; Harrison County Solid Waste Authority approvals; public awareness meetings; old MSW landfill closure; 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 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; leachate collection system; hydrogeologic and geologic evaluations of expansion area; permitting; closure of old MSW area; recycling/baler building; composting facility pilot program for fish processing plant waste
S&S Landfill	Eastern Environmental	Good Hope, WV	Siting; hydrogeologic investigation and monitoring well installation; Part I and Part II; Certificate of Need; wetland identification and removal; permitting and technical assistance
Incinerator Ash Landfill	Cytec Industries, Inc.	Willow Island, WV	Siting, hydrogeologic investigations, Part A and Part B Hazardous Waste Landfill permitting; geologic and soil studies; leachate collection, pumping, and treatment; liner systems, synthetic and manufactured clay; construction documents, construction technical assistance, and construction QA/QC; air permitting; groundwater protection planning; USEPA Region III and WVDEP regulatory agency interaction
Flyash Disposal Landfill	Cytec Industries, Inc.	Willow Island, WV	Development and permitting of industrial solid waste landfill for the de-watering and disposal of flyash; de-watering effluent collection, pumping, treatment, and disposal; economic re-use planning of flyash
Banner Fibreboard Industrial Landfill	Banner Fibreboard	Wellsburg, WV	Compilation of Part I and Part II applications for closure of now inactive former industrial waste landfill, including detailed mapping; geologic mapping and characterizations; hydrogeologic investigations/analyses; aerial photography; compliance issues; and regulatory interaction

## *Related Prior Experience*

PROJECT NAME	CLIENT	LOCATION	DESCRIPTION
Hazardous Waste Solid Waste Management Unit Closure	Cytec Industries, Inc.	Willow Island, WV	Location investigations; site identification and characterization; hydrogeologic investigations, groundwater impact assessments, aquifer testing, monitoring well installation; closure planning; closure permitting and regulatory interaction; construction documents, construction technical assistance, and construction QA/QC for 22 sites within the 3,000 acre complex.
Glass Cullet Disposal Area Closure	The Fenton Art Glass Company	Williamstown, WV	Fenton's consulting engineer since 1991, for characterization/closure of an on-site former disposal area of spent and below-standard glass and waste glass batch materials, now deemed by State and Federal regulations as hazardous waste. MSES has performed detailed subsurface investigations, site mapping, and sampling/ analysis programs to define the character and extent of waste; extensive hydrogeologic investigations, including area water well inventories, groundwater monitoring well installation, development, sampling, and analysis, aquifer studies and pump test analyses. Data were utilized to develop a detailed site characterization and treatment and closure plan for the 1.2-acre hazardous waste disposal area, calling for in-place closure of the former disposal area, detailed groundwater monitoring plan, re-sloping and compaction of existing materials in the disposal area, and installation of synthetic and soil liners to cap the disposal area. MSES coordinated all regulatory agency interactions for the Plan's approval, negotiated Consent Order with WVDEP, and provided construction oversight, quality assurance/quality control of closure activities and materials used, and compliance documentation.
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
S&S Landfill	S&S Grading, Inc.	Good Hope, WV	GPP and SPCC Plans
Meadowfill Landfill	Meadowfill Landfill, Inc.	Bridgeport, WV	GPP and SPCC Plans



## *Related Prior Experience*

PROJECT NAME	CLIENT	LOCATION	DESCRIPTION
Meadowfill Landfill Major Permit Expansion	Meadowfill Landfill, Inc.	Bridgeport, WV	Part 1 and Part 2 preparation, certificate of need, construction documents, construction management, construction CQA, leachate collection system, hydrogeologic and geologic evaluations of expansion area, permitting, and closure of existing area
S&S Landfill Major Permit Expansion	S&S Grading, Inc.	Good Hope, WV	Part 1 and Part 2 preparation, certificate of need, construction documents, construction management, construction CQA, leachate collection system, hydrogeologic and geologic evaluations of expansion area, permitting, and closure of existing area
City of Clarksburg C&D Landfills	City of Clarksburg	Clarksburg, WV	Siting, design, and permit to implement multiple 2 acre C&D Landfills for City housing demolition
City of Clarksburg C&D Landfill Closure	City of Clarksburg	Clarksburg, WV	Record surveying, drainage design, and construction, cover material location of C&D placement to achieve final grade, courthouse and deed work to close C&D landfill.

### **RELATED PRIOR EXPERIENCE - CITY OF CLARKSBURG LANDFILL**

MSES and, most pertinent, the MSES Professional Staff to be assigned to the WVDEP City of Clarksburg MSW Landfill closure cap design and permitting has had an on-going history with the City of Clarksburg MSW Landfill. The following provides a brief history of MSES' involvement with the City of Clarksburg's Landfill.

#### **Original Closure Permit**

MSES, under contract with Waste Placement Professionals, Inc., prepared and obtained a Closure Permit for the Clarksburg MSW Landfill in 1990. The landfill was operated for the City by Waste Placement Professionals and Mid-American Waste Systems of Harrison, Inc. until 1994 when it became inactive and received an intermediate soil cover. The closure permit involved characterization of the landfill and surrounding property, hydrologic and geologic studies, groundwater monitoring system, soils testing and classification, and stormwater management design. MSES assembled and analyzed this data to prepare a permit application for closure of the landfill under the newly enacted Emergency Solid Waste Management rules.

#### **Upgrade to Landfill Cover**

Upgrade Clarksburg Landfill's intermediate cover, leachate collection system, and stormwater management. Under contract to WVDEP Landfill Closure Assistance Program, in 2002 and 2003, MSES designed and performed field QA/QC inspection for installation of a perimeter leachate seep

## *Related Prior Experience*

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collection system for Clarksburg's MSW Landfill. A perimeter drain line was installed at the toe, enclosing the west, east, and south sides of the landfill with laterals to intercept upslope seep outbreaks. Work also included correction of low spots in the intermediate cover to prevent ponding and installation drainage ditching and sediment control structures.

### **Yard Waste Compost Facility**

At the request of the City, MSES, in 1993 and 1994, designed a Yard Waste Composting Facility and secured a permit for the facility through modification of the Clarksburg Landfill Closure Permit. The yard waste facility uses the landfill's sediment pond for stormwater management and sediment erosion control. The composting facility continues to operate under the landfill's closure permit, using the landfill access road and areas on the property not containing landfilled waste. MSES manages information and prepares progress mapping to secure permit renewals for the landfill allowing continued operation of the composting facility.

### **Leachate Management**

MSES has developed and monitored the collection of landfill leachate and its discharge to the City of Clarksburg's Wastewater Treatment Collection System. MSES, in the late 1990s, prepared plans and drawings for the enlargement of the landfill's leachate collection and holding tank farm. Further, MSES developed the leachate surveillance program for the routine inspections of the closed landfill for leachate breakouts, recording, corrective action plan, and leachate correction training of the City's Public Work's personnel.

### **City C&D Landfill**

MSES prepared permit application and progress mapping to secure annual permit to operate a non-commercial C&D landfill in an area adjacent to the closed MSW Landfill. MSES has performed these services since 2002, working directly for the City's Department of Public Works. The most current C&D site is permitted to use MSW Landfill's sediment pond for stormwater management and sediment control.

### **Other Non-Landfill Uses of Permitted Landfill Property**

In 2007, with final completion in 2008, MSES assisted City of Clarksburg, City and County Departments of Public Safety, and Federal Criminal Justice Information Center in the development of a state-of-the-art gun range for police officer training; certification, and re-certification of firearms. MSES prepared the site mapping, layout, grading plans, construction documents, and construction QA/QC. The gun range is located in an unused area of the City's MSW Landfill property, which the MSW Landfill used for daily cover soil.

## *Related Prior Experience*

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### **Landfill Engineering Duties**

Since 1999, MSES has been retained by the City of Clarksburg to maintain environmental management of the facility. In this capacity, MSES has managed surface water and groundwater monitoring, performed landfill gas monitoring and general on-site observations of landfill cover and facilities and maintained permit renewals.

## **6. Confirmations**

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### **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.