



**JAMES J. MALOT**  
*Vice President*

### **EDUCATION:**

Princeton University, B.S.E. Geological Engineering 1978  
Duke University Masters Program, Business Administration 1980  
Butler University, Short Courses  
Analytical Groundwater Modeling, 1981  
Advanced Groundwater Modeling, 1981  
Princeton University, Short Courses  
Finite Element Modeling, 1983

### **PROFESSIONAL HISTORY:**

Current Environmental Solutions, CEO  
Global Engineering Solutions - Vice President  
Terra Vac - President 1984-2000  
Soil and Material Engineers, Inc.- Geological Engineer/Project Manager 1980-1983  
Schlumberger Overseas: Field Engineer 1978-1980

### **REPRESENTATIVE EXPERIENCE:**

Mr. Malot is the founder and President of Terra Vac and is the country's leading expert in the application of vacuum extraction related technologies for the remediation of contaminated soil. He is the holder of two patents covering the process of vacuum extraction. In addition, he is a consulting engineer with extensive experience at site assessment, remediation projects of both soil and groundwater and emergency response. A summary of his areas of expertise are as follows:

- Project management of subsurface investigations and design of remediation systems.
- Hydrogeological and geological studies including monitoring well network design.
- Presentation before public hearings and expert witness
- Geophysical testing for assessment of hydrogeologic setting and contaminant migration
- Engineering design, installation and operation of contaminant recovery systems
- Hydrogeological evaluation of hazardous waste landfills including cover and liner system design

### **Remediation/Remedial Design:**

Resume, Jim Malot

Mr. Malot has conducted extensive remedial designs, involved at a supervisory role as a minimum on in all of Terra Vac's 500 site remediations. Mr. Malot has been involved at the Program Manager level in all 20 sites listed in Terra Vac's remediation experience. See Appendix A for a detailed description.

- Wyoming Refinery 9/88 - Vapor extraction system recovered 150,000 lbs of hydrocarbon
- California Petroleum Terminal 2/88 - Vapor extraction system recovered 55,000 lbs of hydrocarbon.
- Florida Petroleum Company 10/89 - Vapor extraction recovered 20,000 lbs of hydrocarbon.
- Pennsylvania Superfund Site 5/88 - Vapor extraction system, groundwater treatment system recovered 90,000 lbs hydrocarbon to date.
- Puerto Rico Superfund Site 11/86 - Vapor extraction system operated to closure.
- Michigan Superfund Site 8/87 - Vapor extraction, groundwater treatment system recovered 60,000 lbs of hydrocarbons.
- McClellan AFB - 6/92 New technology demonstration of BIOVAC™ and Hot air injection.
- Puerto Rico Oil Refinery - 8/85
- California Dept. of Transportation 6/90 - Ex -situ Vacuum Extraction
- Major airport in Tampa, Fl.- In-Situ vacuum extraction and groundwater remediation.

#### **Site Assessment:**

Mr. Malot has conducted extensive site assessments, involved at a supervisory role as a minimum on in all of Terra Vac's 500 site remediations. Mr. Malot has been involved at the Program Manager level in all 20 sites listed in Terra Vac's remediation experience. See Appendix A for a detailed listing and description.

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### **Emergency Response:**

Mr. Malot has responded to numerous emergencies as a Terra Vac program manager and as an independent consultant. It is estimated that a minimum of 100 emergency responses have been conducted by Mr. Malot. A detailed listing of Terra Vac's remedial experience is included in Appendix A.

### **PROFESSIONAL ACTIVITIES**

Registered Professional Engineer  
 Member, National Society of Professional Engineers  
 Member, Waste Pollution Control Federation  
 Member, Association of Groundwater Scientist and Engineers  
 Moderator at the Fifth National Symposium on Aquifer Restoration.

### **PUBLICATIONS**

Vacuum Extraction of Hydrocarbons for Subsurface Soils at a Gasoline Contamination Site, J. Applegate, J.K. Gentry, and James J. Malot, Superfund 87, Washington, DC.

Low Cost, Site Specific, Total Approach to Decontamination, James J. Malot and Paul R. Woods, Amherst, Mass., 1985

Cleanup of Soils Contaminated with Hydrocarbons at a Gasoline Service Station, James J. Malot, APCA 81st Annual Meeting, Dallas, TX, 1988.

Land Application of Paper Mill Sludge, James J. Malot and Greg N. Richardson, Southern Pulp and Paper, July 1982

Unsaturated Zone Monitoring and Recovery of Underground Contamination, James J. Malot, paper presented at the Fifth National Symposium on Aquifer Restoration and Groundwater Monitoring, Columbus, Ohio, 1985.

Vacuum: Defense System for Groundwater VOC Contamination. Jose C. Arelot, James J. Malot, Melvin J. Visser, paper presented at the Fifth National Symposium on Aquifer Restoration and Groundwater Monitoring, Columbus, OH, 1985

Experimental Determination of Mean Molar Stoichiometric Activity Coefficients of NaCl and KCl Solutions at Elevated Temperatures and Pressures, research thesis, Princeton University, Princeton, New Jersey, 1978.

Innovative Technologies for Cleanup of Superfund Sites, Stephen Lester, James J. Malot, Hazardous Wastes, Washington, DC., 1985.

Numerous Confidential Technical Reports Evaluating Existence, Prevention, and Mitigation of Subsurface Contamination.

United States Patent Number 4,593,760. Removal of Volatile Contaminants from the Vadose Zone of Contaminated Ground, M. J. Visser and J. Malot, April, 1986.

United States Patent Number 4,660,639. Removal of volatile Contaminants from the Vadose Zone of Contaminated Ground, M. J. Visser and J. J. Malot, April, 1987.