



**James Keegan P.E., REA**  
**President Environmental Remediation Group**

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**EDUCATION:**

- MBA CALIFORNIA STATE UNIVERSITY, Fullerton
- BS. DEGREE 1984 CALIFORNIA POLYTECHNIC UNIVERSITY
- Registered Environmental Assessor (REA, CA)
- Professional Engineer Civil (P. E., CA)
- Navy Nuclear Power School, Orlando
- Navy Quality Assurance School, San Diego

**Professional Recognition:**

Registered Civil Engineer, CA  
Registered Environmental Assessor, CA  
Licensed California Contractor  
Member of the Board of Directors PEMA  
National Leadership Award - Republican National Committee  
Instructor for National Ground Water Association (NGWA) on remediation Technologies  
Has completed more than 400 Site Assessment, Remediation Design, Pilot Testing, or full-scale remediation projects.

**WORK EXPERIENCE:**

September 2006	President Environmental Remediation Group, Corona, CA
December 1991 - 2006	TERRA VAC, CORP., Anaheim, CA. Vice President Supervise and mentor staff of up to fifteen engineers, geologists, in design, construction, operation and closure of numerous soil and groundwater remediation, investigation and feasibility projects. Responsible for overall management direction and coordination of all business activities at multiple locations including preparing purchase orders, supervising procurement/contracts. Develop and implement regional business plans. Profit and loss responsibility for \$4 million per year office. Coordinates and participates in sales, business development, strategic planning, and marketing to achieve revenue generation, cost and quality control.
July 1990- December 1991	Managing Application Engineer ROSEMOUNT INC., La Habra

Supervise four technicians and engineers, design process control system configurations, client interaction, contract negotiations.

June 1984 - July 1990

Licensed Navy Nuclear Engineer

U.S. Navy, San Diego

Supervised several engineering divisions with up to 20 personnel. Thorough knowledge of design and operation of water/air cooling, hydraulics, pneumatics, steam turbines, power distribution, water chemistry control, atmosphere control, piping systems, nuclear power controls and instrumentation, heat transfer. Quality assurance officer responsible for implementation and management of submarine quality assurance programs. Qualified Officer of the Deck, responsible for ships operation, leadership, and safety.

## **BUSINESS ACCOMPLISHMENTS:**

- Senior Project Manager – Merced County Dept. Public Works Spring Fair
- Principal in Charge – Shannon’s Market- Site Assessment, remedial option selection and execution, Merced, CA
- Program Manager Navy EMAC Environmental Contract valued at \$120 million.
- Program Manager for Major Oil company multi-site remediation/assessment project.
- Program Manger for Alameda Corridor on-call environmental services (\$1 - \$5 mill per year).
- Provided outstanding leadership to staff that resulted in high moral and improved teamwork.
- Developed business plans that resulted in rapid regional growth.
- In 2002 recognized by the National Republican Congressional Committee and presented the National Leadership Award and selected as special advisor to the Chairman.
- Instructor for the National Groundwater Association for Remediation & Site Assessment.

## **PUBLICATIONS AND PROFESSIONAL PRESENTATIONS**

- *Combined Remedy for Assessment and Remediation of a Site in California*, September 2006, Presented at International DNAPL Remediation Conference, Pittsburg, PA
- *Complete Remediation of DNAPL* September 2005, Presented at International DNAPL Remediation Conference, San Francisco, CA
- *Rapid Remediation of Former Dry Cleaner*, November 2004, Presented at International Brownsfield Redevelopment Conference, St. Louis, MO.

- *Integrated Remediation Technology provides Rapid Site Remediation* May 1993 Presented at numerous environmental conferences including: Outdoor Action Conference, Las Vegas - HAZMACON 93, Long Beach - ,Speaker HAZMAT, San Jose
- *Groundwater Sparging Provides Rapid Site Remediation, a Case Study* September 1994 accepted for presentation and Speaker HAZMACON 94, Long Beach, Ca.
- Featured in July 1995 OC METRO Magazine, Entrepreneur profile
- *Fast, low-cost site remediation uses integrated vacuum extraction and groundwater sparging*, Published in August 1995, WATER AND WASTE WATER INTERNATIONAL
- *MTBE or not MTBE*, Published in June 1997, SOILS AND GROUNDWATER MAGAZINE
- Guest speaker on Remediation of MTBE, 1997 American Chemical Association, Irvine California
- *Innovative Site Assessment and Remediation Technologies for Delineation and Remediation of DNAPL*, Regulatory Cooperation Conference on UXO and DNAPL. 1998, San Diego, Ca.

### **SELECTED ENVIRONMENTAL PROJECTS**

- Senior Project Manager for County of Merced Site Assessment and Selection of Remediation Options for Spring Fairgrounds, Los Banos, CA.
- Program Manager for NAVFACENGCOM Environmental Multiple Award Contract (EMAC) for Remedial Action Operations (RAO) and Long Term Monitoring (LTM).
- Project Manager for Electrical Resistive Heating remediation project – Carson California.
- Program Manger for Alameda Corridor Transportation Authority project - \$1 to \$5 million per year, long term, on-call environmental services. Includes remediation, site assessment, feasibility studies as well as asbestos abatement.
- Project Manager for Stringfellow Superfund Site in Glen Avon, California - Designed, cost estimated and managed construction, installation, and testing for vacuum extraction system. Total remediation project budget \$1.5 million.
- Project Manager for major construction firm in Irvine, California - Designed, estimated cost and managed construction, installation, equipment procurement, operation and regulatory interface of vacuum extraction/ air sparging bioremediation system. Site soil and groundwater impacted with approximately 30,000 lbs. of gasoline from a UST leak. Total remediation project budget \$800,000. Achieved closure from Orange County Health Care Agency and Regional Water Quality Control Board.

- Project Manager for major defense contractor in Fullerton, California - Managed construction, equipment procurement, installation and operation of vacuum extraction remediation system and ex-situ stockpile remediation. Site soil and groundwater impacted with chlorinated hydrocarbons (TCE, PCE, Methylene Chloride) from clarifier leak. Total remediation project budget approximately \$2 million.
- Project Manager for major oil company site in Los Alamitos, California - Managed construction, equipment procurement, installation and operation of dual vacuum extraction remediation system. Designed, implemented and obtained regulatory approval for a Hydrogen Peroxide injection system for remediation of site soils and ground water. Service station site soil and groundwater impacted with gasoline from UST leak. Total remediation project budget \$450,000.
- Project Manager for City of Indio site in Indio, California - Managed design, equipment procurement, vacuum extraction bioremediation system. Designed, implemented and obtained regulatory approval for a bioremediation of site soils and ground water. Total remediation project budget approximately \$1 million.
- Project Manager for major oil company site in San Diego, California - Managed design, construction, equipment procurement, installation and operation of vacuum extraction remediation system. Site soil and groundwater impacted with gasoline, and diesel free product. Total remediation project budget \$300,000. Achieved site closure from San Diego County Health Care Agency.
- Project Manager for major defense contractor in El Segundo, California - Managed design, construction, equipment procurement, installation and operation of vacuum extraction / pneumatic fracturing bioremediation system. Site soil and groundwater impacted with MEK and chlorinated hydrocarbons (TCE, PCE, Methylene Chloride) from clarifier leak. Coordinated permitting process with Ventura County Air Pollution Control District. Total remediation project budget approximately \$2.5 million.
- Project Manager for major defense contractor in El Segundo, California - Managed design, construction, equipment procurement, installation and operation of dual vacuum extraction remediation system and groundwater treatment system. Production facility site soil and groundwater impacted with gasoline, diesel, and chlorinated hydrocarbons. Total remediation project budget \$350,000.
- Project Manager for Department of Defense site in San Bernardino, California - Managed design, construction, equipment procurement, installation and operation of vacuum extraction remediation system. Site soil impacted with gasoline and JP4.

- Senior Engineer for Department of Defense site in Tucson, Arizona - Designed and cost estimated vacuum extraction remediation system for site soils impacted with gasoline and JP4.
- Project Engineer for Department of Defense sites throughout California and Washington - Designed and cost estimated vacuum extraction remediation system for site soils and groundwater impacted with gasoline and JP4.