

Randy D. Horsak, PE
Sr. Consultant
Environmental Engineering



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A Licensed Professional Engineer, Mr. Horsak has more than 40 years experience in multiple phases of environmental engineering and science, from engineering and project management to strategic planning and construction. During his career, Mr. Horsak has provided risk assessments of air, water and waste contamination of petroleum hydrocarbons, pesticides, Agent Orange, carbon black, dioxins, PCBs, metals, radionuclides, biological pathogens, and other toxins. He has worked on more than 500 projects in the U.S. and 50 internationally, including abandoned/legacy sites, hazardous waste management facilities, refineries, chemical plants, fossil and nuclear power plants, geothermal energy plants, manufacturing and commercial facilities, pipelines, power transmission lines, oil and gas exploration and production sites, and public and private properties. The projects range in size from small consulting assignments to complex, multi-million-dollar developments with turnkey engineering and construction. Mr. Horsak has authored nearly 50 technical articles and presentations, and has served as an expert witness for plaintiffs and defendants.

Areas of Focus

- Environmental Toxins and Toxicants
- Chemical and Manufacturing Plants
- Pesticide Manufacturing
- Oil and Gas Exploration and Production
- Treatment of Frac Water and Produced Water
- Environmental Site Assessments
- Soil and Groundwater Remediation
- Site Restoration
- Engineering Cost Estimates
- Air Pollution Control

Education

- MS, Environmental Science, University of Texas at San Antonio, 1974
- BS, Engineering, University of Texas, 1971

Licensing & Certifications

- Registered Professional Engineer in Texas, Louisiana, Nebraska and Alabama

Publications (*partial list*)

- Applying Uncertainty to Construction Cost Estimates: The Use of Monte Carlo Methods to Assess Contingency and Risk, University of Houston Graduate Engineering Program, 2017
- Applying Uncertainty to Construction Cost Estimates for Disaster Preparedness, University of Houston Graduate Engineering Program, 2016
- Cancer Incidence in Coal Combustion Waste Landfill Workers (Particulate Impact), Dahlgren, J., Horsak, R., 2016
- Chapter 5: Water Utilization, Management, and Treatment, Hydraulic Fracturing Operations: Handbook of Environmental Management Practices Textbook, Scrivener/Wiley Publishers, 2015
- Applying Stochastic Processes to Engineering Economics, University of Houston Graduate Program, 2012
- Chapter 8 – Pesticides, Environmental Forensics, Horsak, Bedient, Hamilton, Thomas, et al, 2005

Associations

- National Society of Professional Engineers, Member
- Hazardous Substances Journal, Advisory Board
- Air and Waste Management Association, Member
- Texas Water Pollution Control Association, Member
- Houston Engineers Society, Member
- Houston Chamber of Commerce, Member
- International Society of Environmental Forensics, Member
- National Groundwater Association, Member
- ASTM Committee on Forensic Environmental Investigations, Member
- Forensic Expert Witness Association, Member
- Association for the Advancement of Cost Engineering (International), Member
- Texas Board of Professional Engineers, Technical Expert for Enforcement
- Environmental Forensics Journal, Peer Reviewer
- EPA Office of Research and Development, Peer Review Committee, Member

Presentations (*partial list*)

- Design and Installation of Innovative Transportable Municipal Wastewater Treatment Systems in Pakistan, Horsak, R. and Quereshi, J., Skype presentation to Conference on Water Security and Sustainable Growth, PCRWR and Riphah International University Institute of Public Policy, Islamabad, Pakistan, 2016
- Addressing Oil Field Legacy Sites: Using Stochastic Cost Estimating Techniques to Evaluate Potential Financial Risk, Horsak, R., DiGiglia, M., Corley, D., Environmental Challenges and Innovations Conference, Gulf Coast, Texas Association of Environmental Professionals, 2012
- The Relevancy of Background Concentrations of Polychlorinated Dibenzo-Dioxins (PCDDs) in Toxic Tort and Property Contamination Cases, Horsak, R., Zlotnik, E, and Sanchez, A., Environmental Challenges and Innovations Conference, Texas Association of Environmental Professionals, 2011
- University of Houston Graduate Program, Lecturer
- San Jacinto College, Lecturer

Employment

- Humatec, Sr. Consultant – Environmental Engineering, 2017 - Present
- 3TM Consulting, LLC, President and Principal Engineer, 1994 - Present
- McLaren/Hart Environmental Engineering, Regional Manager, 1992 - 1994
- M.W. Kellogg, Environmental Program Manager, 1991 - 1992
- Roy F. Weston, Project Director, 1990 - 1991
- NUS Corporation – Halliburton, 1983 - 1990
 - Manager of Business Development
 - Regional Manager
 - Director of Regional Business Development
 - General Manager
- Pace Consultants and Engineers, Project Manager and Practice Leader, 1980 - 1983
- Brown & Root, Inc. – Halliburton, Senior Engineer and Project Manager, 1979 - 1980
- R.W. Beck & Associates, Senior Engineer and Project Manager, 1975 - 1979
- City Public Service, San Antonio, TX, Staff Engineer and Project Coordinator, 1972 - 1975