Bart H. Faris

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Primary Interest: Environmental Resource Management and Restoration, Hydrogeology, Community Development

Languages: English, Spanish, Portuguese

Summary of Qualifications

More than 20 years in water resources, hydrology, environmental resource management and restoration, natural resources, and community development. Areas of expertise include all aspects of environmental resource management, site assessment and remediation, evaluation of impacts to human health and the environment, hydrogeology, contaminant fate and transport, in-situ bioremediation, community development projects, and environmental litigation.

Professional History

New Mexico Environment Department – Ground Water Quality Bureau; Albuquerque and Santa Fe, New Mexico; Hydrogeologist, 1994 – present.

International Mission Board; Colombia, South America; Community Development/Agricultural Engineer; 1986 – 1994.

USDA Soil Conservation Service; Gilroy California; Soil Conservationist, Riparian Habitat Mitigation; 1983 -1986.

Education

BS in Soil and Water Science, University of Arizona, 1983.

Awards, Honors Commendations

Community Advocacy Award, S. Valley Partners for Env. Justice, 2004
Commendation from Representative Heather Wilson, 2003
Environmentalist of the Year, NMEHA, 2001
ITRC Team Leader Award, 2001
ITRC State Engagement Team Leader Award, 2000
NMED Ground Water Quality Bureau Employee of the Year, 1995
Agricultural Development Commendation, Cali, Colombia, 1993
Outstanding Community Development Award, Mesolandia, Colombia, 1991
10th Place National Soil Judging Competition 1983.
3rd Place Regional Soil Judging Competition, 1983.

. New Mexico Environment Department – Ground Water Quality Bureau
As the Team leader of the State's clean up program I directly supervise 4 staff, budget oversight, program planning, and approval of staff assignments and activities. I am an active participant in the Border 2012 environmental resource management between federal parties from the US and Mexico and partnering States. Primary responsibilities involve analysis of complex environmental issues to determine impacts to human health, plant, animal, and environment for adequacy of corrective actions in compliance with State laws and regulations. Responsibilities range from conducting detailed analyses of water resources including site inspections, varied sampling procedures, regulatory compliance, to complete project management at contaminated sites throughout New Mexico. Specific technical areas of experience include:

- Environmental resource planning and management
- Natural resource evaluation and impacts (surface water, ground water, wetlands, watersheds)
- Fate and transport analysis of pollutants (petroleum hydrocarbons, chlorinated solvents, polychlorinated biphenyls, metals, and major ions).
- Environmental forensics
- In-situ bioremediation technologies
- Quantitative analyses of natural attenuation processes
- Geochemical process evaluation and analysis
- Development and application of field analysis techniques
- Implementation of new environmental technologies
- Manipulation and input of environmental data base
- Public outreach
- Public service
- Personnel management
- Pollution prevention
- Project planning

International Mission Board
As an agricultural engineer I developed, implemented, and promoted water resource management and holistic environmental plans for marginal income persons in Colombia. Specific duties included:

- Soil conservation and improvement
- Environmental conservation and pollution prevention
- Reforestation
- Agricultural engineering projects (earthen dam construction, irrigation systems, community water systems)
- Human nutrition education
- Urban gardening projects
- Improvement of farming techniques for subsistent small plot farmers

USDA Soil Conservation Service
As a soil conservationist I oversaw riparian habitat revegetation contracts for flood control projects. Duties included evaluation of hydraulic conductivity, performed standard proctor density tests, surveying, and riparian habitat mitigation.

Summary of Work from 1977 to 1993
Landscape design and installation, irrigation systems installation, plant nursery management, crop production, and all aspects of sod farm management

Publications and Presentations

Faris, B. 2010. Platform Speaker Invitation. Battelle International Conference on Remediation of Chlorinated & Recalcitrant Compounds Session H1: Remediation of Nitrates in Soil and Groundwater. *Dealing with the Elephant: Nitrate Contaminated Groundwater a Regulatory Perspective.* Monterey, California. May 24-27, 2010

Faris, B. 2009. *Nitrate Groundwater Issues: New Mexico's Perspective*. Southwest Hydrology. July/August 2009. Vol. 8, No. 4.

Faris, B. 2007. Western States Groundwater and Drinking Water Protection Forum. *Nitrate Contaminated Groundwater: Assessment and Remediation.* Fort Worden. WA. Oct. 23-25, 2007

Adams, D, Faris B., Vlassopoulos, D. 2006. *Evaluating In Situ Bioremediation for Ground Water Clean Ups.* Chemical Engineering Progress. February 2006. American Institute of Chemical Engineering.

Faris, B., Vlassopoulos, D., ITRC ISB Team. 2003. *A Systematic Approach to In Situ Bioremediation in Ground Water.* REMEDIATION Spring 2003. Wiley Interscience, Hoboken, New Jersey. Vol. 13, No. 2.

McQuillan, D., Faris, B., et. al. 2003. *Intrinsic Biodegradation of High Explosives and Nitrate in Ground Water: Fort Wingate Army Depot, Gallup, New Mexico.* In proceedings of *The 5th Environmental Technology Symposium & Workshop.* Charlotte, NC.

Faris, B., ITRC EISBD Team. 2002. *Remediation of Nitrate Contaminated Ground Water: Enhanced In Situ Biodenitrification.* Hidropres: Tecnología y Gestión del Agua. Madrid, Spain. No. 33.

Faris, B. (Team Leader), ITRC ISB Team. 2002. *Technical/Regulatory Guidelines: A Systematic Approach to In Situ Bioremediation in Groundwater; Decision Trees for Nitrates, Carbon Tetrachloride, and Perchlorate.* Interstate Technology Regulatory Council. Washington, DC.

Faris, B., ITRC ISB Team. 2002. *A Systematic Approach to In Situ Bioremediation of Carbon Tetrachloride in Groundwater.* In proceedings of the *Application of Waste Remediation Technologies to Agricultural Contamination of Water Resource Conference.* EPA Office of Science Policy and the Great Plains/Rocky Mountain Hazardous Substance Research Center. Kansas City, MO.

Faris, B., ITRC EISBD Team. 2001. *Remediation of Nitrate Contaminated Ground Water: Enhanced In Situ Biodenitrification.* In proceedings of *Investigation, Management, and Remediation of Contaminated Aquifers.* Alicante, Spain. (presentation and proceedings publications in Spanish).

McQuillan, D., Faris, B., et. al. 2000. *Intrinsic Biodegradation of High Explosives and Nitrate in Ground Water: Fort Wingate Army Depot, Gallup, New Mexico.* In proceedings of *The National Ground Water Association Conference.* Las Vegas, NV.

Faris, B. (Team Leader), ITRC EISBD Team. 2000. *Technology Overview: Emerging Technologies for Enhanced In Situ Bioremediation of Nitrate Contaminated Ground Water.* Interstate Technology Regulatory Council. Washington, DC.

Faris, B., ITRC EISBD Team. 2001. *Emerging Technologies for Enhanced In Situ Bioremediation of Nitrate Contaminated Ground Water.* In proceedings of *American Geophysical Union, Geochemical Society, Mineralogical Society of America, American Astronomical Society/Solar Physics Division: Spring Meeting.* Boston, MS.

Faris, B. 1996. *Ground Water Education Program.* Conference on the Environment. Albuquerque, NM.

McQuillan, D., Faris, B., et. al. 1998. *Intrinsic Cometabolism of Carbon Tetrachlroride with Gasoline: Regulatory Site-Closure.* In proceedings of *Remediation of Chlorinated and Reclacitrant Compounds, First International Conference.* Battelle Press. 1998.