



EXPERIENCE

Dick has over 12 years of continuous experience with environmental matters ranging from industrial to real estate related issues. The scope of projects performed during his tenure in the industry includes Voluntary Cleanup Program (VCP) projects, groundwater quality assessments, groundwater modeling, soil and groundwater remediation, real estate evaluations, permitting and waste handling issues. Through service as one of 10 state-wide members of the Texas Risk Reduction Program (TRRP) Steering Committee in charge of overseeing development of TRRP guidance, serving as past Vice-Chairman of a statewide environmental trade organization and involvement with state agencies on a wide range of projects, Dick has experience with the new TRRP, the Texas Risk Reduction rules, the VCP and petroleum storage tank issues. Brief summaries of a portion of the projects Dick has dealt with are provided below:

KEY PROJECTS:

*Industrial Property - Dallas, Texas. Project Manager:* Dick reviewed existing site investigation files concerning chlorinated organic impacts to the subsurface soil and groundwater. In review of the site and development of projected costs to address the concerns, Dick was able to find a path to closure through the Texas Natural Resource Conservation Commission's (TNRCC) Voluntary Cleanup Program (VCP) for the prospective purchaser of the property that met their business needs. Other potential purchasers had declined to proceed with acquisition of the site due to the presence of the chlorinated organic compounds in the soil and groundwater. The property is currently in the VCP and a Conditional Certificate of Completion is expected to be issued initially followed by a Certificate of Completion after adequate monitoring is finished.

*Industrial Property – Mid-Cities Area, North Texas. Project Manager:* Dick designed and performed an investigation of a property utilized in electronics manufacturing over the past 30 years. The investigation of the site focused primarily on potential impacts from metals and trichloroethene (TCE). The project is currently in the final stages of delineation with a plume extending well off site in deposits of the Woodbine Formation. The presence of TCE in the alluvial deposits of the Woodbine make vertical delineation a key issue for this project.

*Industrial Property – Midland-Odessa, Texas. Project Manager:* Dick is serving as project manager for a Fortune 500 company on a site with chlorinated organic impacts to two aquifers. The project involves interim remediation through soil vapor extraction while assessment of both aquifers is completed. Long term groundwater remediation and monitoring are being evaluated for this facility.

*Industrial Property – East Texas, Project Manager:* Dick reviewed existing site investigation files and developed a plan to complete delineation for a facility with 1,1,1 TCA impacts in the soil and groundwater beneath the plant. The investigation included drilling inside the building in sensitive manufacturing areas without having to shut down production. The remedial response to this facility is planned to be limited remedial action through removal of soil followed by longer term groundwater monitoring.

*Former Chrome Plating Operation – East Texas. Project Manager:* Dick assisted a client in addressing subsurface hydrocarbon impact issues from a neighboring facility and chrome- affected soil from a chrome plating operation on site. Characterization of the site resulted in clearly identifying that the hydrocarbon impacts were from both on and off-site sources and in determining that the health risk from the chrome-affected soil was low enough that no further action was necessary.

*Former Pesticide Handling Facility - Dallas, Texas. Project Manager:* A former facility used for storage and mixing of pesticides for use on various residential and commercial properties was evaluated for impacts to the subsurface. Closure of the site is anticipated through the Texas Natural Resource Conservation Commission's Voluntary Cleanup Program.

*Aspen Highlands Ski Area, - Aspen, Colorado. Project Manager:* Dick was the project manager responsible for assessment and remediation of maintenance areas, drum storage areas and petroleum storage tank locations so that the base of the ski area could be redeveloped as a mixed residential/commercial development by Hines Interests Limited Partnership. The project required maintaining a tight time schedule as well as interaction with Colorado's voluntary cleanup and petroleum storage tank programs. The project was completed on time with



concurrency on closure of issues from both programs allowing for redevelopment of the site on schedule.

*US Department of Agriculture Research Facilities - Texas. Project Geologist:* USDA facilities used in research for herbicides and pesticides were investigated with facility records and the soil and groundwater on site being evaluated. Remedial plans were then designed to address the impacts found.

*Dry Cleaners - Dallas, Texas. Project Manager:* Dick has developed work plans for assessment and closure for numerous dry cleaners under the TNRCC's VCP. Development of these plans has required careful consideration of the business needs of the client as well as regulatory requirements that must be met. Three of the properties also involved impacts to third parties requiring sensitivity to VCP notification requirements and to communication issues with adjoining property owners.

*Industrial Manufacturing Facility – Greenville, Texas area. Project Manager:* Dick is providing oversight of a large scale site assessment, health risk evaluation and site remediation of an industrial facility with chlorinated organic impacts to the soil and groundwater beneath the facility. The site is in the Voluntary Cleanup Program and issuance of a Conditional Certificate of Completion within two years is expected.

*Truck Manufacturing Facility-North Texas. Project Manager:* Dick assisted a manufacturer of tractors for “18-wheeler” rigs with an investigation and closure plan for a subsurface sump that had contained waste paint and solvents that had impacted the subsurface beneath the plant. Implementation of the plan resulted in closure of the site from the State.

*Ski Area Assessment - Colorado. Project Manager:* Dick worked closely for four years with a major ski area in Colorado in assessing a wide range of environmental issues. These issues included assessment and closure of over 150 petroleum storage tanks at ski lifts and maintenance areas on four different mountains, development of waste handling and minimization plans, creation of SPCC plans, development and implementation of



asbestos operation and maintenance plans, and creation of a comprehensive Environmental Compliance Manual focused on ski area operations. The budget for the above operations exceeded 3.0 million dollars over the four years of the project with the majority of expenditures in the first year. Dick was able to save the ski area between \$500,000 to \$800,000 through creative interaction with the Colorado Department of Public Health and the

Environment that allowed reuse of affected soil on site and application of risk assessment when the state did not have a formal risk assessment program.

*Bulk Fuel Terminals - Texas. Project Manager:* Dick has been involved in assessment and remediation of five bulk fuel terminals for a major oil company. The issues involved ranged from relatively minor impacts on property previously used for agriculture to assessment of a former refinery converted into a bulk fuel distribution terminal. Dick also assisted the terminal managers with waste handling issues and air emission inventories.

*Petroleum Storage Tanks - Texas. Project Geologist and Project Manager:* Dick provided field investigation and project management for over 70 petroleum storage tank locations for Fina Oil and Chemical Company. Dick was responsible for technical as well as financial issues regarding these projects. Dick received the Outstanding Project Manager award from Fina for his efforts.

## EDUCATION

Masters of Science, Geology (emphasis on groundwater); Texas Tech University; 1988

Bachelors of Science, Geology; Texas A&M University; 1985

Analysis and Design of Aquifer Tests; National Water Well Association; 1990.

Other - Groundwater and Contaminant Transport Modeling and Aquifer Characterization, Masters Civil Engineering Coursework, Texas Tech University, 1987 to 1988.



*CIRRUS ASSOCIATES, LLC*

**RICHARD S. RECORD**  
**Dallas Operations Manager**

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**WORK HISTORY** Dallas Operations Manager; Cirrus Associates, Dallas, March 1998 to current

Branch Manager; CURA, Inc., Dallas, July 1997 to March 1998

Senior Client/Project Manager/Hydrogeologist; CURA, Inc., Dallas, Texas; November 1988 to July 1997.

**AFFILIATIONS:** Industry Council for the Environment (ICE); former Board Vice-Chairman and current Regulatory Committee Chairman

Member of TNRCCs Texas Risk Reduction Program Steering Committee for developing TRRP Guidance.

Dallas Bar Association, Environmental Law Section Associate Member