

ENVIRONMENTAL/ ENGINEERING GEOLOGISTS

UST Site Assessment in Fractured Limestone Uvalde County, Texas

presented by Robert B. Rieser

Environmental/Engineering Evening Meeting – May 11, 1994
Social Period, 6:30 p.m., Program 7:00 p.m.
H.E.S.S. Building

In June, 1993 a resident notified the owner of a nearby UST system that vacationers tubing down the Frio River smelled a foul odor near the location of a particular gas station located at the top of the river bank. An inspection of the area revealed unweathered, unleaded gasoline in a spring-fed well at the base of the slope about 300 feet southeast of the site. Immediate response activities to abate the product and vapors were instigated. Under the direction of the TWC (now TNRCC) the two USTs were excavated and inspected. The inspection showed corrosion holes in both tanks

confirming the source of the release. The amount of product released was unknown. A Limited Site Assessment was conducted to define the local geology, to determine the adsorbed-phase, dissolved-phase and phase-separated hydrocarbon plume, and to determine the product migration pathway. This information was then used to determine the most effective remediation system design and product recovery method(s). The environmental consulting company handling the site assessment was the Houston office of The Bourdeau Group, headquartered in Austin. The engineering consulting com-

pany which developed the remediation design, oversaw the system installation, and is currently managing the site is Dwight Russell and Associates, headquartered in Austin. The remediation equipment and installation contractor was Remediation Equipment Company, headquartered in Corpus Christi.

This presentation will cover the activities and results of the site assessment (in detail), the system design (briefly), and, if the information is made available, the results of soil vapor extraction test(s) and quarterly groundwater sampling.

ROBERT B. RIESER

Biographical Sketch

Mr. Rieser is currently a project manager working RCRA industrial sites for AWD Technologies, Inc. During the previous 5 years, he had worked in the UST industry as the Senior Project Manager for The Bourdeau Group in Houston, and as a project manager with Groundwater Technology, Inc. While with The Bourdeau Group, he was the project manager and field geologist for the Uvalde County fractured limestone UST assessment, which is the topic of this

month's Environmental Committee evening meeting.

Prior to working in the environmental industry, Mr. Rieser had worked in the oil industry as a geologist from 1976 to 1988 with a variety of companies ranging from a major company to consultant and service companies. He earned his Masters degree from Ohio University in geology in 1976, and his Bachelor's degree in geology in 1973 from the University of Notre Dame.