

Assessing Vapor Intrusion at Petroleum Hydrocarbon Sites

2008 Annual National Tanks Conference

March 16, 2008

Atlanta, Georgia

Proposed Format

- Informal
- Get acquainted: Instructors and participants
- Ask or submit questions

Overview

- API Work on VI
- Guidance Documents
- Petroleum VI Conceptual Model
- Principals of Vapor Movement and Attenuation
- Bioattenuation from a VI Site Database
- Case Studies to Evaluate HC Vapor Migration
- Methods to Assess VI and Sampling Issues
- Summary and Discussion

Resource Documents at www.api.org/vi

- **Collecting and Interpreting Soil Gas Samples from the Vadose Zone**
- **Identification of Critical Parameters for the Johnson and Ettinger (1991) Vapor Intrusion Model**
- **Vadose Zone Natural Attenuation of Hydrocarbon Vapors : An Empirical Assessment Of Soil Gas Vertical Profile Data**
- **Assessing the Significance of Subsurface Contaminant Vapor Migration to Enclosed Spaces: Site-Specific Alternatives to Generic Estimates**

API Work in Progress

- **“Simulating the Effect of Aerobic Biodegradation on Soil Vapor Intrusion into Buildings: Evaluation of Low Strength Sources Associated with Dissolved Gasoline Plumes”**
 - Visit poster session
- **Review of site data**