

May 30 and 31, 2007

## Contaminated Site Investigation: Planning, Field Sampling, and Interpretation

### *Seminar Synopsis*

This is a two-day classroom and field program; however, each day can be taken separately for those who wish to do so. The program involves practical aspects of collecting soil, soil vapour, groundwater, surface water, and ambient air samples at contaminated sites. Topics covered will include development of sampling plans, selection of appropriate field methods, field demonstration of common sampling techniques, data QA/QC, and interpretation of results. The seminar will assist those who want to learn or improve their field sampling skills; and those who are involved with review of site investigations and need to determine the adequacy of the resulting site characterization. The contaminated site investigation course will include issues associated with the collection and analysis of data for characterization of common types of contaminants and exposure pathways.

### Day 1 – Soil and Groundwater Media

8:00 Refreshments and introductions  
8:15-10:00 Part 1 – Conceptual model and sampling strategy for soil and groundwater  
Part 2 –Example site and class exercise  
10:00-10:15 Refreshment Break  
10:15-12:00 Part 3 – Sampling design, methods, and tools: soil, groundwater  
Part 4 – Interpretation: QA/QC, “Best Practice” to avoid pitfalls, what to look for when reviewing a site investigation report  
12:00-1:00 Lunch  
1:00-4:00 Part 5 – Field exercise using common sampling tools and techniques  
4:00-4:30 Wrap-up discussion

### Day 2 – Soil Vapour and Other Media (Sediment, Surface Water, Biota)

8:00 Refreshments and introductions  
8:15-10:00 Part 1 – Conceptual model and sampling strategy for soil vapour, ambient air and other media  
Part 2 –Example site and class exercise  
10:00-10:15 Refreshment Break  
10:15-12:00 Part 3 – Sampling design, methods, and tools: Soil vapour, ambient air, and other media (sediment, surface water, biota).  
Part 4 – Interpretation: QA/QC, “Best Practice” to avoid pitfalls, what to look for when reviewing a site investigation report  
12:00-1:00 Lunch  
1:00-4:00 Part 5 – Field exercise using common sampling tools and techniques  
4:00-4:30 Wrap-up and Discussion