



Contaminated Sites Investigation Planning, Field Sampling, and Interpretation

June 2 and 3, 2010 in Burnaby BC

Day 1 – Soil and Groundwater Sampling

Day 2 – Sampling of Soil Vapour and Other Media

Who Should Attend?

Those who want to upgrade their knowledge of site investigation and planning: how to design sampling programs, common and emerging sampling techniques, and of how to avoid common pitfalls in interpretation. The course includes hands-on experience with sampling equipment and tailored to

- new graduates and “in-training” practitioners
- risk assessors who would like to learn more about investigation methods and how to determine the adequacy of the site characterization
- property developers, managers, and legal professionals involved with site investigation and remediation
- health, safety, environmental, and operating professionals

Seminar Synopsis

This is a two-day **classroom** and **field** program, however either day can be taken separately for those who wish to do so. The program involves practical aspects of collecting soil, groundwater, surface water, soil vapour, and ambient air samples at contaminated sites.

Topics covered will include development of sampling plans, selection of appropriate field methods, **field demonstrations** 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 Conceptual Model and Sampling Strategy for Soil and Groundwater
Soil Sampling (design, methods, and tools)
Class Exercise
- 10:00-10:15 Refreshment Break
- 10:15 -12:15 Groundwater Sampling (design, methods, and tools)
- 12:15-1:00 Box Lunch – Travel to Site
- 12:30- 4:30 Field Demonstration: Soil and Groundwater Sampling
- 4:30 Wrap-up

Day 2 – Focus on Soil Vapour with Overview of Sediment, Surface Water, and Biota

- 8:00 Refreshments and introductions
- 8:15-9:00 Class Exercise
Data Validation and Interpretation
- 9:00-10:00 Sampling of Soil Vapour and Ambient Air
- 10:00-10:15 Refreshment Break
- 10:15-11:15 Sampling of Soil Vapour and Ambient Air
- 11:15-12:15 Sampling of Sediment, Surface Water, and Biota
- 12:15-1:00 Box Lunch – Travel to Site
- 1:00-4:30 Field Demonstration: Soil Vapour (mainly), Sediment/Surface Water
(overview)
- 4:30 Wrap-up