

Environment Business



Contaminant Hydrogeology

Contaminant Hydrogeology is a two-day course that is designed to introduce the environmental practitioner into the concepts of how groundwater becomes impacted and what the options and procedures are for evaluation and treatment. We will explore the concepts and processes of contaminant hydrogeology. The course takes students through a general study starting with groundwater transport theory; working into parameter fate, monitoring methods and remediation strategies.

Outline:

1. Groundwater Basics
2. Mass Transport in Saturated Media
3. Transformation, Retardation and Attenuation of Solutes
4. Flow and Mass Transport in the Vadose Zone
5. Multiphase Flow
6. Inorganic Chemicals in Groundwater
7. Organic Compounds in Groundwater
8. Groundwater and Soil Monitoring
9. Site Remediation

This course is aimed at technologists, professionals and managers who desire an improved understanding of contaminated groundwater hydrology. Basic background knowledge of hydrogeology, chemistry and physics is helpful.

Instructor:

Craig Robertson, CD, M.Sc., P.Geol., P.Ag., EP
Senior Manager, Environment
GENIVAR
Calgary, Alberta

Craig Robertson has thirty six years experience in industry, oil & gas, mining, and agriculture. His diversified responsibilities have included impact assessment, site characterisation, remediation design, ground water resource development, regional flow studies, irrigation and drainage, research, education and training. Craig has managed projects involving the application of hydrogeological and hydrochemical principles related to environmental

management and remediation both domestically and internationally. In his current role as Senior Manager, Environment for GENIVAR, he directs technical and professional staff in the conduct of contaminant hydrogeological investigations, development of risk management and remediation strategies and management of facility liabilities for multiple clients in western Canada.