

Activitats del BCK (Barcelona Knowledge Campus):

Seminaris sobre: “Caracterització i remediació d'aqüífers per solvents clorats en medi fracturat”

Dia: dilluns 27 de maig
Hora: matí (9 - 13 h) tarda (15 – 19 h)

Lloc: Sala de Juntes (Facultat de Geologia. Universitat de Barcelona)

A càrrec de: Professora Beth L. Parker

Professor and NSERC Industrial Research Chair Director
(Centre for Applied Groundwater Research University of Guelph-Canada)

Seminari 1: “Remediation Design Considerations and Performance Assessment in Fractured Rock”

In situ destruction of subsurface contamination in heterogeneous environments such as fractured rock is strongly dependent on delivery of the amendments to where the contaminant mass resides. It is common that after decades of source zone dissolution and transport by active groundwater flow and diffusion, that the highest concentration zones remains in the lower transmissivity regions of the system. Field studies conducted to assess technology performance and feasibility have been conducted using high resolution characterization to improve the design for targeted injections and appropriate elapsed times and spatial sampling scale to confirm effective treatment. Complete remediation to background levels (non-detects or drinking water limits) may still take many years, however, targeted delivery to high concentration zones can save time and money to reach alternative clean-up targets such as flux reductions at boundaries or down-gradient receptors.

Seminari 2: “Characterization and monitoring techniques”

A suite of characterization and monitoring techniques, some standard and deployed at higher resolution and others new that have been developed and tested for improved understanding the important characteristics (fracture network, matrix porosity and transport and reaction processes) relevant to contaminant transport, fate and remediation performance in fractured rock systems are presented. These tools are designed to remove inherent bias with open borehole cross-connection, higher sensitivity measurements of parameters due to depth-specific or high spatial resolution sampling or combinations of data sets and analytes to resolve processes and parameter values that better inform the site conceptual and numerical models used to evaluate groundwater flow systems and contaminant threats to receptors.

Inscripció gratuïta:

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