



# FRACTURE-ENHANCED REMEDIATION

## IN PLACE CLEAN-UP OF CONTAMINANTS

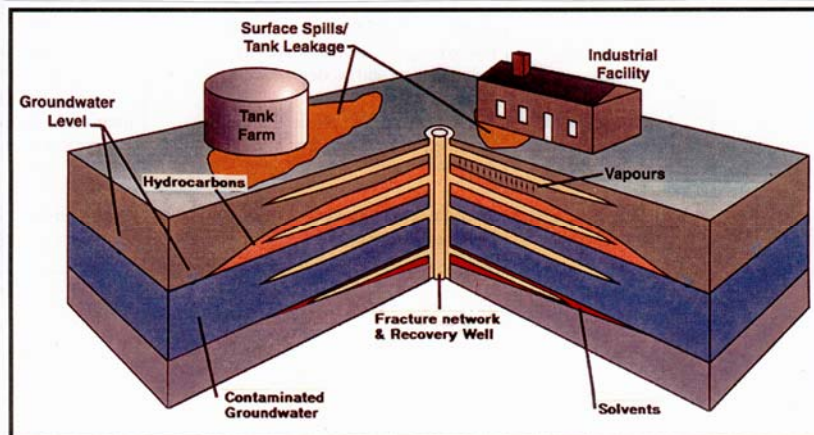
Clean-up of contaminants in low permeability soils using conventional methods such as excavation, land treatment, and pump & treat is often cost-prohibitive, lengthy or technically unfeasible. Soil Hydraulic Fracturing using the **FRAC RITE™** process, offers a cost-effective, non-disruptive alternative that expedites the removal and/or destruction of subsurface contaminants in place.

The same principles are used in environmental fracturing. The **FRAC RITE™** process creates a network of permeable fracture pathways in soils or bedrock to expedite contaminant recovery or treatment. Sand fractures are emplaced using our mobile EF9300 Frac Unit. During the fracturing process, individual subsurface fractures can be mapped using tiltmeter technology.

**...cost-effective, environmentally sustainable and non-disruptive alternative to conventional remediation and disposal options.**

**...expands range of in situ remedial options to include co-injection of treatment amendments.**

**... accelerates remediation and reduces time to obtain closure at sites with difficult soil conditions.**



SCHEMATIC OF SITE CLEAN-UP USING THE **FRAC RITE™** PROCESS AT AN INDUSTRIAL FACILITY

Our **BIO FRAC™** process can be used to co-inject treatment amendments during or after fracturing to chemically or biologically degrade contaminants in place.

## BENEFITS

The benefits of fracture-enhanced remediation include:

## THE FRAC RITE SOLUTION

Frac Rite Environmental Ltd. provides hydraulic soil fracturing services to the geo-environmental industry. Hydraulic fracturing has been used for decades by the oil and gas industry to increase production rates in wells.

- cost savings
- a “best practices” remedial approach
- no excavation required
- small footprint
- improved bioavailability
- minimal infrastructure
- more remedial options
- enhanced MNA
- faster clean-ups

**Frac Rite Environmental Ltd.**

**5325 – 3<sup>rd</sup> Street S.E. Calgary, Alberta CANADA T2H 1J7**  
**tel: (403) 265-5533 [www.fracrite.ca](http://www.fracrite.ca) fax: (403) 265-5648**