

Monitored natural attenuation – PAH/BTEX

Problems:

- 18 000 µg PAH/l (PAH: Polyaromatic hydrocarbons)
- 4 000 µg BTEX (BTEX: benzene, toluene, ethylbenzene, xylenes)
- 10 000 tons of soil affected
- Subsurface: alluvial deposits and clay

Our Responses:

- Bioremediation feasibility study undertaken proving that the diffuse PAH/BTEX contamination can be degraded within the boundaries of the site after removing hot-spots with high ecotoxicity.
- Natural attenuation rate stable and sufficient
- Monitoring system installed

Location: Illzach, France

Initial cost estimates using standard technologies: 1-2 mill US\$

Actual costs using *in-situ* bioremediation: 120 k US\$

Time for active *in-situ* remediation : 0 years