Groundwater remediation

- Former brown coal conversion site
- Five MPPE units
- Operational since 2002

Challenge

- 2 years of intensive testing
- Reinfiltration of purified water
- Ideal to enhance in situ biodegradation
- Enhanced DNAPL & LNAPL removal with surfactant

Performance

MPPE (5x) removes:
- BTEX 233,00 µg/l (ppb)
- Naphtalene 500 µg/l (ppb)
- PAHs 153 µg/l (ppb)
- >99% removal

MPPE units capacity 4x 20 m³/h & 1x 3 m³/h

The MPPE process

MPPE stands for Macro Porous Polymer Extraction. Polymer beads contain a specific immobilized extraction liquid. Hydrocarbon contaminated water is passed through a column packed with MPPE particles. The hydrocarbons are extracted from the water at any designed efficiency up to 99.999%. The MPPE particles can simply be regenerated by heating with steam. The removed hydrocarbons are recovered as an almost 100% pure product. No other waste stream is created. No chemicals require, no off gasses produced.