



Veolia MPPE Technology

LMBV Lauchhammer - D

Groundwater Natural Attenuation

- Former brown coal processing site
- Two MPPE units
- Operational since 2010



Challenge

- Hot Spot Remediation
- Remove toxic content without changing the natural water environment
- Reinjection of treated water
- Ideal to enhance in-situ biodegradation



Performance

MPPE removes:

- BTEX 30,000 to 150 µg/l (ppb)
- PAHs 500 to 15 µg/l (ppb)
- >99% removal
- Partial Alkylated Phenols removal
- Performance guaranteed

MPPE unit capacity 2x 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 requires, no off gasses produced.

MPP & TiPSS Technologies

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