Veolia MPPE Technology

Chemical storage & distribution
- Rotterdam Harbor
- Distribution center for Europe
- Formerly owned by Dow Chemical
- MPPE and Biotreatment
- Delivered by Veolia
- Operational since 2001

Challenge
- Small irregular heavy waste stream from tank cleaning
- Big fluctuating waste/ground/surface water streams
- Rotterdam harbor discharge fulfilling stringent demands

Performance
MPPE removes:
- Toxic non polar compounds (BTEX, chlorinated hydrocarbons, EOCl, 2000 ppm)
- 99% removal
- MPPE treatment prior to Bio:
  1. Bio will not be poisoned
  2. Sludge treatment formation very low

Biotreatment (SBR) removes:
- Non toxic polar hydrocarbons
- Nitrogen containing compounds

Capacity 25 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.

Veolia Water Technologies
Techno Center Netherlands B.V.
Celsiusstraat 34
6716 BZ Ede
The Netherlands
Phone: +31 (0) 318 664010
Email: mppsystems@veolia.com
www.mpptechnology.com & www.tipsstechnology.com