



## Veolia MPPE Technology

## Groupe Fimalac – LBC- NL

### 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 m<sup>3</sup>/h

#### MPP & TiPSS Technologies

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#### 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 required, no off gasses produced.