



## Veolia MPPE Technology

## Coatings/Printing Ink/Resin production - USA

### Resin production waste water

- Akzo Nobel Coatings (Resins)
- TOTAL – Cook Resins (Houston & Milwaukee)
- DuPont (Printing Inks)
- Operational since 1998

### Challenge

- Waste water from Coating / Printing Ink / Resin Production like alkyds, acrylic and polyester resins
- Frequent fouling of existing steam stripper from heat polymerization
- Replace existing steam stripper



Much more compact and robust than Steam stripper. Suitable for indoor placement

### Performance

#### MPPE removes:

- Aromatics, BTEX 200,000 -> 20 ppb

#### MPPE Unit capacity 5m<sup>3</sup>/h (30g pm)

Process wastewater discharge to Louisville's Metropolitan Sewer District is regulated under the Organic Chemical, Polymer, Synthetic Fiber (OSPSF) category standards of the U.S. EPA.

#### Vs. steam stripper:

- Lower costs (50%)
- Less space (1/3)
- Higher capacity (4x)
- Trouble free

### 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.

#### MPP & TiPSS Technologies

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