



Veolia MPPE Technology

Television screen plant - Germany

Former Philips Television Screens production plant (1998)



- Waste water treatment
- Toluene was used as a solvent in the production of television screens (production plant has been shut down when LCD screens entered the market).
- The waste water coming from the process was treated by MPPE before being discharged to the sewer system.

Challenge

- Due to space constraints on the site the MPPE unit was designed very compact.



MPPE performance:

- Capacity 5m³/h
- Toluene from 500.000 to 50 ppb

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

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